



UNIVERSITY OF CENTRAL FLORIDA

UCF Stands For Opportunity

2009-2010 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

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's faculty and staff members pledge their best efforts in helping you attain your educational goals.

As you pursue your studies, please remember that a college education is more than academics. Education extends beyond the classroom, laboratory, or studio to campus clubs and organizations, concerts, plays, speeches, and athletic events. I urge you to become involved in UCF campus life and to 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, take pride in your university. Like the Pegasus, our symbol, UCF is on the ascent, truly standing for opportunity. 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 170,000 alumni.

Cordially yours,

A handwritten signature in black ink that reads "John C. Hitt". The signature is fluid and cursive, with the first name "John" being particularly prominent.

John C. Hitt
President

An Equal Opportunity and Affirmative Action Institution



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 Director, Student Development Nicole Gelfert
 Director, Student Services Madi Dogariu
 Director, Undergraduate Research and Civic Engagement . . . Kelly Astro

College of Arts and Humanities

Dean José B. Fernandez
 Associate Dean Lyman Brodie
 Associate Dean Terry J. Frederick
 Assistant Dean Lynn Hepner
 Assistant Dean Paul Lartonoix
 Chair, Art Mark Price
 Chair, English David Wallace
 Director, School of Film and Digital Media Stephen Schlow
 Chair, History Rosalind Beiler
 Chair, Modern Languages and Literatures Paolo Giordano
 Chair, Music Johnny L. Pherigo
 Chair, Philosophy Bruce Janz
 Interim Chair, Theatre Steven Chicurel

College of Business Administration

Dean Thomas L. Keon
 Associate Dean, Graduate and External Programs Jaishankar Ganesh
 Associate Dean, Graduate Programs Student Placement
 and Accreditation Foard F. Jones
 Associate Dean, Undergraduate Programs Taylor Ellis
 Chair, Dr. Phillips Institute
 Director, Kenneth G. Dixon School of Accounting Robin W. Roberts
 Chair, Economics Wally Milon
 Chair, Finance Anthony K. Byrd
 Chair, Management Foard F. Jones
 Chair, Management Information Systems Paul H. Cheney
 Chair, Marketing Ronald E. Michaels
 Endowed Chair and Director, DeVos Sports
 Business Management Richard Lapchick
 Director, Administration and Budget Hubert Jacques
 Director, Undergrad Programs & Student Support Randall Brumfield
 Director, Executive Development Center Robert Case
 Director, Human Resources Ann Roberts

College of Education

Dean Sandra L. Robinson
 Executive Associate Dean for Academic Affairs Jennifer C. Platt
 Associate Dean, Graduate Studies B. Grant Hayes
 Associate Dean, Research Rex Culp
 Chair, Child, Family and Community Sciences Anne Culp
 Chair, Educational Research,
 Technology and Leadership Conrad G. Katzenmeyer
 Chair, Educational Studies Karen L. Biramhi
 Chair, Teaching and Learning Principles Michael C. Hynes
 Executive Director for Administration Allison G. Jefferson
 Executive Director of Student Affairs Tina M. Smilie
 Director, Assessment, Accreditation, and Data Management Lance Tomei
 Director, Clinical Experiences Bryan Zugelder
 Director, Community and College Relations Richard Sloane
 Director, Development Heather Smith

College of Engineering and Computer Science

Interim Dean Marwan Simaan
 Executive Associate Dean Essam Radwan
 Interim Associate Dean, Academic Affairs Charles Reilly
 Assistant Dean, Distributed and Distance Learning Alfred Ducharme
 Associate Dean, Research Debra Reinhart
 Assistant Dean, Technology Samuel M. Richie
 Director, Academic Support Services Melissa D. Falls
 Director, Development Robin Knight
 Director, Electrical Engineering and Computer Science Issa Batarseh
 Director, Minority Engineering and
 Computer Science Program Bruce Furino
 Chair, Civil, Environmental and Construction Engineering Lakshmi N. Reddi
 Chair, Engineering Technology Ronald Eaglin
 Chair, Industrial Engineering and Management Systems Waldemar Karwowski
 Interim Chair, Mechanical, Materials and
 Aerospace Engineering David Nicholson
 Chair, Air Force ROTC Col. William G. Palmby
 Chair, Army ROTC LTC Bryce Christensen

College of Health and Public Affairs

Dean Michael Frumkin
 Interim Associate Dean, Graduate Studies and Technology . . . Ronnie Korosec
 Associate Dean, Research Thomas Wan
 Associate Dean, Student Affairs/Personnel Melvin Rogers
 Associate Dean, Undergraduate Studies Pamela E. Kirby
 Executive Director, Undergraduate Student Services Judith A. Sindlinger
 Chair, Communication Sciences and Disorders R. Jane Lieberman
 Chair, Criminal Justice and Legal Studies Robert Langworthy
 Chair, Health Professions Aaron Liberman
 Chair, Health Management and Informatics Aaron Liberman
 Chair, Public Administration Mary Ann Feldheim
 Director, School of Social Work John Ronnau

College of Medicine

Dean Deborah German
 Assistant Vice President, Development Chip Roberts
 Associate Dean, Faculty and Academic Affairs Richard Peppler
 Associate Dean, Finance and Administration Steven Sumner
 Associate Dean, Planning and Knowledge Management Julia Pet-Armacost
 Assistant Dean, Graduate Medical Education Diane Davey
 Assistant Dean, Undergraduate Medical Education Lynn Crespo

Burnett School of Biomedical Sciences

Director and Chair, Molecular Biology and Microbiology . . . P. E. Kolattukudy
 Associate Director Roseann White
 Associate Director Robert Gennaro
 Director, Biotechnology program Henry Daniell
 Director, Medical Laboratory Sciences program Dorilyn Hitchcock

College of Nursing

Dean Jean Leuner
 Associate Dean, Undergraduate Affairs Linda Henning
 Associate Dean, Graduate Affairs Jean Kijek

College of Optics and Photonics

Dean and Director Bahaa Saleh
 Associate Dean for Academic Programs David J. Hagan
 Director, Research and Administration James E. Pearson

Rosen College of Hospitality Management

Dean Abraham Pizam
 Interim Associate Dean Tadayuki Hara
 Interim Chair, Hospitality Services Fevzi Okumus
 Chair, Tourism, Events & Attractions Deborah Breiter
 Chair, Foodservice & Lodging Management H.G. Parsa

College of Sciences

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

SUMMER 2009 ACADEMIC CALENDAR

Summer 2009	Session A May 18 - June 26 6 Weeks	Session B June 29 - August 7 6 Weeks	Session C May 18 - August 7 12 Weeks	Session D May 18 - July 17 9 Weeks
Application Deadline for All New Undergraduate	March 1	March 1	March 1	March 1
Application Deadline for Readmission	April 1	April 1	April 1	April 1
Application Deadline for Graduate Programs Without Deadline	April 15	April 15	April 15	April 15
Graduation Application (Online Intent to Graduate on myUCF)	Mar. 9 - Apr. 27	Mar. 9 - Apr. 27	Mar. 9 - Apr. 27	Mar. 9 - Apr. 27
Registration on myUCF	Mar. 23 - May 17	Mar. 23 - June 28	Mar. 23 - May 17	Mar. 23 - May 17
Registration for State Employees, UCF Employees, Non-Degree, Transients and Audits (begins 3:00 p.m.)	May 15	June 26	May 15	May 15
Registration for Senior Citizen Audits and STEP (begins 3:30 p.m.)	May 15	June 26	May 15	May 15
On-campus Housing opens (1:00 p.m.)	May 17	June 27	May 17	N/A
Classes begin	May 18	June 29	May 18	May 18
Late Registration ³ on myUCF (ends at 11:59 p.m. on last day)	May 18-22	June 29 - July 2	May 18-22	May 18-22
Drop Deadline on myUCF (ends at 11:59 p.m.)	May 21	July 1	May 21	May 21
Last Day for Full Refund on myUCF (ends at 11:59 p.m.)	May 21	July 1	May 21	May 21
Add Deadline on myUCF (ends at 11:59 p.m.) Fees Due ³	May 22	July 2	May 22	May 22
	May 29, 2009 - Students registering from 3/23/09 through 5/22/09			
	July 10, 2009 - Students registering for Summer B only 5/23/09 through 7/02/09			
Grade Forgiveness Deadline on myUCF (ends at 11:59 p.m.)	June 5	July 17	June 26	June 19
Withdrawal Deadline on myUCF (ends at 11:59 p.m.)	June 5	July 17	June 26	June 19
CLAST test (register by May 8)	June 6			
VA Deferral Payment Deadline ^{1,3}	July 24	July 24	July 24	July 24
Classes End; Last Day to Remove Incomplete ⁴	June 26	August 7	August 7	July 17
Final Examination Periods	Given during last class meeting			
On-campus Housing close (noon)	June 27	August 8	August 8	N/A
Grades Due on myUCF	July 1	August 12	August 12	July 22
Grades Available on myUCF (begins 9:00 a.m.)	July 2	August 14	August 14	July 23
Commencement	August 8	August 8	August 8	August 8

NOTE: Dates are subject to change. Consult the *Web Enrollment Guide* and online Academic Calendar (<http://www.registrar.sdes.ucf.edu/calendar>) for information.

All new 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.

¹ Ends at 5:00 p.m. on the last day.

² Summer B payment deadline for all students who register March 23 - May 22; Summer B payment deadline for all students who register May 23 - July 2.

³ \$100 Late Registration Fee applies to students who enroll following the close of Registration or who enroll for the first time that term during Late Registration.

³ \$100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.

⁴ 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.

⁵ Summer Final Exams are given during the last class meeting.

University Holidays and Special Events

Memorial Day Holiday May 25, 2009

Independence Day Holiday July 3, 2009

2009 - 2010 FALL/SPRING ACADEMIC CALENDAR

	Fall 2009	Spring 2010
Application Deadline for Undergraduate International students	March 1	September 1, 2009
Application Deadline for All New Undergraduate Freshmen Applicants	May 1	November 1, 2009
Application Deadline for New Undergraduate Transfers	July 1	November 1, 2009
Application Deadline for Readmission	July 1	October 30, 2009
Registration ^{1,2} on myUCF	March 23 - August 23	Mar. 23, 2009 - Jan. 10 and Oct. 26, 2009 - Jan. 10 ⁴
Graduation Application (Online Intent to Graduate Form for Undergraduates on myUCF)	June 22 - August 7	October 19 - December 7, 2009
Housing Payment Due	August 7	December 3, 2009
Registration time for State Employees, UCF Employees, Non-Degree, Transients and Audits (begins 3:00 p.m.)	August 21	January 8
Registration for Senior Citizen Audits, and STEP (begins 3:30 p.m.)	August 21	January 8
On-campus Housing Opens (1:00 p.m.)	August 21	January 9
Classes Begin	August 24	January 11
Late Registration ^{1,2} on myUCF (ends at 11:59 p.m. on last day)	August 24-28	January 11-15
Drop Deadline on myUCF (ends at 11:59 p.m.)	August 27	January 14
Last Day for Full Refund on myUCF (ends at 11:59 p.m.)	August 27	January 14
Add Deadline on myUCF (ends at 11:59 p.m.)	August 28	January 15
Payment deadline ¹	September 4	January 22
CLAST Test (register by Sept. 4-Fall / Jan. 22-Spring)	October 3	February 20
Academic Advising Weeks	October 12-23	October 12-23, 2009
Last Day to Reinstate Drop for Nonpayment Classes (ends at 4:00 p.m.)	October 16	March 5
Grade Forgiveness Deadline on myUCF (ends at 11:59 p.m.)	October 16	March 5
Withdrawal Deadline (ends at 11:59 p.m.)	October 16	March 5
VA Deferral Payment Deadline ¹	November 20	April 2
Classes End; Last Day to Remove Incomplete ³	December 7	April 26
Final Examination Period	December 8-14	April 27 - May 3
On-campus Housing Closes (noon)	December 15	May 4
Grades Due on myUCF (noon)	December 17	May 6
Degree Conferred	December 18	May 7
Commencement	December 18-19	May 7-8
Grades Available on myUCF (begins 9:00 a.m.)	December 19	May 8

NOTE: Dates are subject to change. Consult the *Web Enrollment Guide* and online Academic Calendar (<http://www.registrar.sdes.ucf.edu/calendar>) 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 (12424 Research Parkway, Suite 169) at 407-823-6479.

¹ \$100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.

² \$100 Late Registration Fee applies to students who have not enrolled by the close of Registration.

³ 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."

⁴ Under the Multiple Term Registration procedure, undergraduates with a declared major and UCF GPA of 3.5 or higher will receive their appointment dates and times for Summer 2009, Fall 2009 and Spring 2010 beginning March 2, 2009. Registration for these students will begin on or after March 23. All other eligible students will receive their registration times beginning October 12 and Spring registration for these students will begin on or after October 26.

University Holidays and Special Events

Labor Day Holiday	Sept. 7, 2009
Homecoming Week (classes still held)	November 9-14, 2009
Veteran's Day Holiday	November 11, 2009
Thanksgiving Holiday	November 26-28, 2009
Martin Luther King Jr. Holiday	January 18, 2010
Spring Break	March 8-13, 2010
Founders Day Honors Convocation (classes still held)	April 7, 2010

Undergraduate Academic Policy Statement

The University of Central Florida, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this *Undergraduate Advising Guide* and the *Undergraduate Catalog*. The *Undergraduate Catalog* is published online once a year and cannot always reflect new and modified regulations. Statements in this *Undergraduate Advising Guide* and the *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 Advising Guide* and the *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, veteran's status, and sexual orientation 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-1EE0. 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, 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. Conduct that comprises a breach of this policy may result in academic action and/or disciplinary action. Academic action affects student assignments, examinations or grades. Disciplinary action affects student enrollment status. Examples of conduct for which students may be subject to academic and/or disciplinary penalties including expulsion are:

- Cheating, whereby non-permissible written, visual, electronic 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 shall also constitute cheating.
- Plagiarism, whereby another's work is 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.
- 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,

University Notices

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 Knight's 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://cstore.ucf.edu/page.cfm/recommendations.html>.

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

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

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

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

Complaint Policy

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

In most cases, the recommended strategy for complaints of any nature is to ask the concerned individual to first contact the person or office most directly connected to the issue, unless there are compelling reasons not to do so. If the concerned individual does not want to contact a faculty or staff member directly, he or she begins with the next highest

level of authority, which typically is the department chair or director. If the problem or complaint is unresolved or the individual is not satisfied with the resolution, he or she may file a written grievance or appeal in most cases. Specific procedures included are in specific sections of the 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, doctoral, and professional 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)
Business Administration (all disciplines)	The Association to Advance Collegiate Schools of Business (AACSB International)
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, Mechanical Eng	Accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, and Telephone: (410) 347-7700
Computer Science	Accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700
Engineering Technology and Electrical Engineering Technology - Electrical Systems Concentration	Accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700
Health and Public Affairs Athletic Training	Committee on Accreditation of Athletic Training Education (CAATE)
Cardiopulmonary Science	Committee on Accreditation for Respiratory Care (CoARC)
Health Information Management	Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)
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 (ACPHA)
College of Medicine - Burnett School of Biomedical Sciences Medical Laboratory Sciences	National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
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.

UNIVERSITY OF CENTRAL FLORIDA/CAMPUSES

The University

UCF Stands For Opportunity: The University of Central Florida is one of the most dynamic universities in the country in one of the most popular cities in the world. Offering 225 degree programs, it is an academic and research leader in numerous fields, such as optics, modeling and simulation, engineering and computer science, business administration, education, the sciences including biomedical sciences, hospitality management and digital media.

UCF's 1,415-acre main campus provides modern facilities, most of which have wireless abilities, with 600 acres set aside for lakes, woods and an arboretum. UCF has 12 colleges, including the newly College of Medicine, the College of Nursing and the College of Graduate Studies. More than 50,000 students attend classes on UCF's main Orlando campus and its 11 regional campuses. UCF recently granted its 183,252nd degree in its 40th year of offering classes.

The incoming freshmen class for the academic year 2008-09 of 3,932 students continues UCF's rise in academics with an average SAT score of 1219 and a high school grade-point average of 3.76. The Burnett Honors College incoming class has an average SAT score of 1373 and a grade-point average of 4.16. UCF ranks in the top 50 universities nationwide for the number of National Merit Scholars of first-time-in-college students.

The UCF Libraries offer more than 1.9 million volumes, 18,252 periodical subscriptions and 11,576 electronic journals, most of which are available online.

UCF has an 85,000-square-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, ballrooms and meeting rooms, popular eating establishments and a small shopping mall. The Health Center is a full-service health clinic with on-site professionals, X-ray capabilities, a pharmacy, a medical laboratory and physical therapy services. The 10,000-seat UCF Arena and a 45,000-seat on-campus football stadium were opened in 2007. Housing includes on-campus residence halls and affiliated apartments for more than 10,000 students.

UCF promotes a diverse and inclusive environment. UCF students come from 63 Florida counties, 50 states, and 142 countries. Study abroad programs allow UCF students to study and conduct research with 98 institutions in 36 countries. Students at UCF have been recognized throughout the world and include recipients of the Rhodes, Mellon and Goldwater scholarships.

In 2007-08, UCF professors received \$122.9 million in research funding, topping \$100 million for the fourth consecutive year. Distinctive research programs extend learning beyond the classroom and include leadership programs, study abroad, cooperative education, mentorships, internships, service learning and paid research positions.

Online@UCF, The Virtual Campus

<http://online.ucf.edu>

Online@UCF 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.

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 the fully and partially Web-based classes from the class schedule are also excerpted and available on the Online@UCF Web site at <http://online.ucf.edu>.

Web-related instruction modes are:

WORLD WIDE WEB (W): These courses conducted fully via Web-based instruction and collaboration. Courses may require proctored examinations, and may include opportunities for face-to-face orientations, but there will be no regular class attendance requirements.

MIXED-MODE/REDUCED SEAT TIME (M): These courses include both required classroom attendance and online instruction. All M classes have substantial activity conducted over the Web, which will substitute for some classroom meetings.

These types of courses will require access to the Internet, Web-browsing knowledge, ability to use e-mail, 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 mode of instruction. 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 Technology Parkway, Suite 234
Orlando, 32826
407-823-4910; distrib@mail.ucf.edu

Online@UCF is supported by the Center for Distributed Learning, Course Development & Web Services, and the Research Initiative for Teaching Effectiveness. The Center's mission is to support and coordinate the growth and quality of distributed learning activities at the University. 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.

Regional Campuses

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

The University of Central Florida 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 24 Bachelor's programs, 18 minors, 12 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 instruction modes 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, UCF South Lake, UCF Osceola, and UCF Ocala. 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 UCF and Brevard Community College, Lake Sumter Community College, Seminole Community College and Valencia Community College. This agreement provides entry for 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. At UCF Regional Campuses 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 Web site at <http://www.regionalcampuses.ucf.edu>.

Administration

UCF Regional Campuses Administration

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

Vice Provost, UCF Regional Campuses David Harrison
Senior Administrative Assistant Dania Suarez
Assistant Vice President, Executive Director,

Academic Initiatives Bernard Jensen
Assistant Director, Academic Initiatives Cyndi Thomas
Facilities Scheduler Denise Devlin
Coordinator, Statistical Research Jeanne Walker
Assistant Vice President, Student Services A.J. Range
Administrative Assistant Gloria Jimenez
Assistant Vice President, Regional Campus Transfer
Admission & Enrollment/Marketing Angé Peterson
Associate Director, RC Enrollment Services Deborah Bradford
Marketing Account Executive Michelle Fuentes
Coordinator, Web Administrator Tony Recascino
Coordinator, Computer Technology Kirk Henry
Senior Broadcast Technologist Calston Llwellyn
Director, Academic Advising Helen Hill
Director, Business Affairs David Laney
Administrative Assistant Jeanette Holder

University of Central Florida/Campuses

Associate Director, Academic Support Services Joe Schofield
 Coordinator, Administrative Services Thomas Drake
 Associate Director, Head of Partnership,
 Library Services Cynthia Kisby
 Senior Art Specialist Mary Lou Wade

Central Region

UCF West Orlando, UCF South Orlando, UCF Osceola

Director, Academic Support Services Edgar Martinez
 Coordinator, Academic Support Services Carolyn Obexer
 Coordinator, Academic Support Services Nick Pantlioni
 Coordinator, Academic Support Services Lisa Cruz
 Coordinator, Enrollment Services TBA
 Coordinator, Regional Campus Enrollment Services
 (Financial Aid) Shellie Thomas-Small

Eastern Region

UCF Daytona

Assistant Vice President and Director,
 Daytona Beach Campus Linda Bradley
 Associate Director, Academic Support Services Tena Harris
 Director, Regional Campus Student Services Diana Weidman
 Assistant Director, Enrollment Services Raphael Robinson
 Senior Admissions/Registrar Officer Sheri Newble-Dunn
 Coordinator, Financial Aid Heidi Shaw
 Coordinator, Academic Support Services Tina Davis
 Coordinator, Academic Support Services Darryl Greeley
 Coordinator, Academic Support Services Kevin Snyder
 Coordinator, Computer Technology Jason Mayer

UCF Sanford/Lake Mary, UCF Heathrow, UCF Altamonte

Associate VP and Director, UCF Sanford/Lake Mary,
 UCF Heathrow, and UCF Altamonte Springs David Mealor
 Associate Director, Academic Support Services Sean Armstrong
 Coordinator, Enrollment Services Pamela Williams
 Coordinator, Academic Support Services Jackie West-Lee
 Coordinator, Academic Support Services Michelle Camden
 Computer Specialist Russell Crudgington

Southern Region

UCF Cocoa, UCF Palm Bay

Associate VP Academic Affairs
 and Interim Campus Director, Cocoa/Palm Bay Denise Young
 Director, Academic Support Services Lauren Miller
 Director, Regional Campus Student Services Terry Exum
 Coordinator, Regional Campus Student Services James C. Smith, Jr.
 Assistant Director, Enrollment Services TBA
 Assistant Director, Academic Support Services Marilyn Borges
 Coordinator, Academic Support Services Angel Edgecombe
 Coordinator, Academic Support Services Angela Jones
 Coordinator, Academic Support Services Shakira Guice
 Coordinator, Academic Support Services John King
 Coordinator, Academic Support Services Sheryl Schagen
 Coordinator, Computer Technology Sue Sorenson

Western Region

UCF South Lake, UCF Ocala, UCF Leesburg

Assistant Vice President, Academic Affairs Cecelia Rivers
 Associate Director, Academic Support Services Tanya Armstrong
 Director, Regional Campus Student Services Pamela Brady
 Assistant Director, Regional Campus
 Enrollment Services Christy Pasnisin
 Coordinator, Regional Campus Enrollment Services TBA
 Coordinator, Academic Support Services Selena Forrester
 Coordinator, Academic Support Services Robin Tinsley
 Coordinator, Academic Support Services Bethany Larson
 Coordinator, Academic Support Services Scott Larson
 Coordinator, Computer Technology Mei Wong

UCF Cocoa

321-433-7821

(In partnership with Brevard Community College)

Undergraduate Degree Programs

Applied Science (B.A.S.) Office of Undergraduate Studies
 Tracks: Criminal Justice, Health Services Administration,
 Industrial Operations, Information Technology, Legal Studies,
 and Supervision and Administration
 Aerospace Engineering (3rd year B.S.A.E.) College of Engineering
 and Computer Science
 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
 Interpersonal/Organizational Communication (B.A.) College of
 Sciences
 Interdisciplinary Studies (B.A., B.S.) Office of Interdisciplinary
 Studies
 Legal Studies (B.A., B.S.) College of Health and Public Affairs
 Mathematics Education (B.S.) College of Education
 Nursing (B.S.N., R.N. to B.S.N.) College of Nursing
 Political Science (B.A.) College of Sciences
 Psychology (B.S.) College of Sciences
 Sociology (B.A.) College of Sciences
 Social Science (B.S.) College of Sciences
 Social Science Education (B.S.) College of Education

Undergraduate Minors

Anthropology in Multicultural Studies
 Business (For non-business majors only)
 Communication Sciences and Disorders
 Criminal Justice
 English - Writing
 Exceptional Education
 Health Services Administration
 History
 Interpersonal Communication
 Legal Studies
 Organizational Communication
 Math
 Political Science
 Psychology
 Religious Studies
 Social Sciences - Interdisciplinary
 Sociology
 Women's Studies

Graduate Degree Programs

Applied Sociology (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
 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
 Reading Education (M.Ed.) College of Education (Cohort)

UCF Daytona Beach

386-506-4021

(In partnership with Daytona Beach College)

Undergraduate Degree Programs

Applied Science (B.A.S.) Office of Undergraduate Studies
 Tracks: Early Childhood Education, Criminal Justice, Health
 Services Administration, Industrial Operations, Information
 Technology, Legal Studies, and Supervision and Administration
 Business Administration (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
 Mathematics Education (B.S.) College of Education
 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 Science Education (B.S.) College of Education
 Social Sciences (B.S.) College of Sciences
 Sociology (B.A.) College of Sciences
 Technical Education and Industry Training (B.S.) College of
 Education

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
 Interpersonal Communication
 Legal Studies
 Math
 Organizational Communication
 Political Science
 Psychology
 Religious Studies
 Social Sciences - Interdisciplinary
 Sociology

Graduate Degree Programs

Business Administration (M.B.A.) *College of Business Administration*
 Career and Technical Education (M.A.) *College of Education*
 Clinical Psychology (M.A.) *College of Sciences*
 Criminal Justice (M.S.) *College of Health and Public Affairs*
 Educational Leadership (M.Ed.) *College of Education*
 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*

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)*

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

This location also provides junior and senior level course work 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*
 Interdisciplinary Studies (B.A., B.S.) *Office of Interdisciplinary Studies* (limited in scope, see an advisor for details)
 Nursing (R.N. to B.S.N.) *College of Nursing*

Undergraduate Minors

Criminal Justice
 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 Undergraduate Studies*
 Tracks: Criminal Justice, Health Services Administration, Industrial Operations, Information Technology and Supervision and Administration
 Business Administration (B.A.) *College of Business Administration*
 Elementary Education (B.S.) *College of Education (Cohort)*
 Interdisciplinary Studies (B.A., B.S.) *Office of Interdisciplinary Studies* (limited in scope, see an advisor for details)
 Mathematics Education (B.S.) *College of Education*
 Nursing (R.N. to B.S.N.) *College of Nursing*
 Psychology (B.S.) *College of Sciences*
 Social Science Education (B.S.) *College of Education*

Undergraduate Minors

Business (for non-business majors)
 Criminal Justice
 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 Undergraduate Studies*
 Tracks: Criminal Justice, Health Services Administration, Industrial Operations, Information Technology, and Supervision and Administration
 Business Administration (B.A.) *College of Business Administration*
 Elementary Education (B.S.) *College of Education*
 Interdisciplinary Studies (B.A., B.S.) *Office of Interdisciplinary Studies* (limited in scope, see an advisor for details)
 Mathematics Education (B.S.) *College of Education*
 Psychology (B.S.) *College of Sciences*
 Social Science Education (B.S.) *College of Education*

Undergraduate Minors

Business (for non-business majors)
 Criminal Justice
 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**

Applied Science (B.A.S.) *Office of Undergraduate Studies*
 Tracks: Criminal Justice, Early Childhood Education, Health Services Administration, Industrial Operations, Information Technology, and Supervision and Administration
 Business Administration (B.A.) *College of Business Administration*
 Early Childhood Education (B.S.) *College of Education*
 Interdisciplinary Studies (B.A., B.S.) *Office of Interdisciplinary Studies*
 Interpersonal/Organizational Communication (B.A.) *College of Sciences*
 Mathematics Education (B.S.) *College of Education*
 Psychology (B.S.) *College of Sciences*
 Social Science Education (B.S.) *College of Education*

Undergraduate Minors

Business (for non-business minors)
 Criminal Justice
 Early Childhood Education
 English - Writing
 Health Services Administration
 History
 Legal Studies
 Organizational Communication
 Math
 Political Science
 Psychology
 Social Sciences - Interdisciplinary
 Sociology

UCF Sanford/Lake Mary**407-328-2471****(In partnership with Seminole Community College)****Undergraduate Degree Programs**

Applied Science (B.A.S.) *Office of Undergraduate Studies*
 Tracks: Criminal Justice, Early Childhood Education, Health Services Administration, Industrial Operations, Information Technology, Legal Studies, Supervision and Administration

University of Central Florida/Campuses

Business Administration (B.A.) *College of Business Administration*
 Criminal Justice (B.A., B.S.) *College of Health & 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*
 Mathematics Education (B.S.) *College of Education*
 Nursing (R.N. to B.S.N.) *College of Nursing (concurrent with SCC A.S.N.)*
 Psychology (B.S.) *College of Sciences*
 Social Science Education (B.S.) *College of Education*
 Social Sciences (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 Undergraduate Studies*
 Tracks: Criminal Justice, Early Childhood Education, Health Services Administration, Industrial Operations, Information Technology, and Supervision and Administration
 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.) *Office of Interdisciplinary Studies*
 Mathematics Education (B.S.) *College of Education*
 Psychology (B.S.) *College of Sciences*
 Sports and Fitness (B.S.) *College of Education*
 Social Science Education (B.S.) *College of Education*

Undergraduate Minors

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

UCF South Orlando

407-856-6585

7300 Lake Ellenor Drive, Orlando, FL 32809

This location provides junior and senior level course work 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 Undergraduate Studies*
 Tracks: Criminal Justice, Health Services Administration, Industrial Operations, Information Technology, and Supervision and Administration
 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., B.S.) *Office of Interdisciplinary Studies* (limited in scope, see an advisor)
 Psychology (B.S.) *College of Sciences*

Graduate Degree Programs

Business Administration (Cohort, Professional M.B.A. track)

Undergraduate Minors

Business (for non-business majors)
 Criminal Justice
 English-Writing
 Health Services Administration
 History
 Legal Studies
 Political Science
 Psychology
 Social Sciences - Interdisciplinary
 Sociology

General Regional Campus information:

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

Programs are offered via multiple delivery methods: web, video-streaming, face-to-face, and ITV. Delivery methods vary by location.

Bachelor of Applied Science: A degree option for transfers with an Associate of Science degree. Availability of tracks varies by location.

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:* TBA.

University of Central Florida/Campuses

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:* TBA.

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:* Sandra L. Robinson.

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.

Richard T. Crotty Orange County Endowed Scholar Chair: 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 service as the faculty liaison to the Institute for Economic Competitiveness, College of Business Administration. *Chair:* Glenn W. Harrison.

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 Depepe.

Agere Systems, Inc. Eminent Scholar Chair of 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:* TBA.

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:* Karen Aroian.

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 Eminent Scholar Chair in Real Estate: Created in 2005, as a key component of the Dr. P. Philips School of Real Estate. *Chair:* Randy I. Anderson.

21st Century Scholar Chair: Created in 2006 to strengthen and support teaching and research in the field of lasers and medicine at the College of Optics and Photonics. *Chair:* Daniel van der Weide.

Dr. Neil Euliano Chair in Italian Studies: Created in 2005. This is the first Chair in Italian Studies in the State of Florida and is designed to support the teaching and research of an internationally recognized scholar of Italian and Italian American Culture. *Chair:* Paolo Giordano.

University Ombuds Office

Ombuds Officer: Vicky Brown; MH 247; 407-823-6440
<http://pegasus.cc.ucf.edu/~ombuds/>

The Ombuds Office is an informal, impartial, independent and confidential resource for all members of the University community. It is not an office of notice of wrongdoing and cannot participate in any formal grievance or appeal process. The Office provides 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 suggestions 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. The Ombuds Officer is bilingual in Spanish.

Office of Undergraduate Studies

Dean: Alison Morrison-Shetlar; MH 218; 407-823-2373
<http://www.undergrad.ucf.edu/>

The Office of Undergraduate Studies supports the colleges and units 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 are part of this office as is the Office of Academic Services. Also reporting to the Dean of Undergraduate studies are the Office of Experiential Learning, the Faculty Center for Teaching and Learning, The Bridges Office and the Office of Undergraduate Research. The Dean serves as the final appeal for all undergraduate academic appeals.

Academic Services

Associate Dean: Elliot Vittes; MH 210; 407-823-2691
<http://www.academicsservices.ucf.edu/>

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

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.

University of Central Florida/Campuses

UCF Public Safety and Police

Chief: Richard Beary; Building #49, Libra Drive; 407-823-5242
<http://www.police.ucf.edu/>

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 (407-823-5555) 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 duty 24 hours a day. Blue light emergency phones are located at various locations on campus to allow persons in need of 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, marked motorcycle units, bicycle patrol units and all terrain vehicles to meet the unique needs of an expanding urban university.

The Investigations Division (407-823-5980) consists of five detectives, a forensic technician and a criminal analyst who conduct latent investigations for all criminal cases.

The Community Relations Division (407-823-0258) 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 "Annual Report & Safety Guide." The Annual Report & 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 Annual Report & Safety Guide is available at the Undergraduate Admissions Office, Human Resources Office, John T. Washington Center Police Office, Welcome Center, Housing Office and the University Police Department. For further information visit the University Police Web site 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. Units within the Division include the Library, Computer Services & Telecommunications, Instructional Resources, Course Development and Web Services, the Research Initiative for Teaching Effectiveness, and the Center for Distributed Learning. 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; 407-823-2892

Associate Director for Public Services: Meg K. Scharf;
 LIB 512; 407-823-2564

Assistant Director for Systems & Technology: Selma K. Jaskowski;
 LIB 512; 407-823-5444

Librarians: Barbara J. Alderman, Michael A. Arthur, Buenaventura B. Basco, Penny M. Beile, Corrine J. Bishop, Timothy J. Bottorff, Mary Dee Bozeman, Lyn S. Case, Linda K. Colding, Eda M. Correa, Denise Lee Dotson, John R. "Rich" Gause, Jr., Melinda A. Gottesman, Richard H. Harrison, Carole S. Hinshaw, Athena R. Hoepfner, Aysegul Kapucu, Elizabeth K. Killingsworth, Marcus D. Kilman, Cynthia M. Kisby, M. Jason Martin, Hal D. Mendelsohn, Laila Miletic-Vejzovic, Kimberly K. Montgomery, Renee C. Montgomery, Rachel G. Mulvihill, Jeanne M. Piascik, Meredith C. Semones, Kristine J. Shrauger, Peter Spyers-Duran II, Terrie K. Sybolt, Andrew D. Todd, Min Tong, John T. Venecek, Jack L. Webb, Ying Zhang.

University Libraries offers a variety of information resources and services. An extensive resource collection includes 1.9 million volumes, 18,000 journal subscriptions, 3 million microforms and 47,000 media titles. The Libraries' rapidly growing electronic resources include 358 databases, 197,000 e-books, and 11,500 electronic journals. UCF Libraries is a partial depository for United States, Florida government publications and U.S. patents and trademarks.

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 220 computer workstations are available for public use on all five floors of the main campus library. Forty laptops equipped with wireless cards 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 Libraries' electronic resources and to the Internet from anywhere in the building. Twenty eight group study rooms and one presentation practice room are available for students. The main library has two classrooms outfitted with 43 computer workstations for hands-on instruction in the use of electronic resources. Infusion, the Libraries' newest learning space, offers food and beverage items, 34 desktop PCs, comfortable seating areas, closed caption television, and a browsing collection for leisure reading.

The Libraries' web-based catalog can be accessed from any public or home PC, and offers a gateway to hundreds of electronic databases, journals and e-books. For help and advice in the use of resources and materials, the Reference Desk is open most library hours. Individual appointments can also 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 by Instant Messaging, e-mail, telephone at 407-823-2562, or toll-free at 866-271-7589. The Libraries supports the development of information literacy skills in UCF students through the provision of InfoLit modules, <http://infolit.ucf.edu/>, which provide just-in-time instruction for students on topics such as citing resources and plagiarism. Faculty may include the modules in coursework as well.

The Interlibrary Loan and Document Delivery Services Department (ILL/DDS) assists students in obtaining materials not owned by the UCF Libraries, but held by other libraries worldwide. Most book loans, photocopied materials, and electronically delivered items 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 students with disabilities. In collaboration with the University's Office of Student Disability Services students may request assistance with retrieval of materials by contacting the Circulation Desk. A workstation equipped with Jaws and Zoomtext software is available, as well as a Kurzweil reading machine. More information is available at <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 include books, manuscripts, historic public records, ephemera, photographs, art and more. The Libraries' digitization projects <http://library.ucf.edu/Systems/DigitalCollections/> continue to make more of these unique materials available on the Web. The Libraries partners with other libraries and local institutions through Central Florida Memory, Florida Heritage, Digital Library of the Caribbean, and similar web-based 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 College of Education Building (COE). The CMC provides representative K-12 curriculum materials for preview, review, analysis and circulation. Although the CMC primarily serves COE students and faculty, it 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 407-823-2791.

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 College, 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 Campus Libraries collections and services are available through partner libraries in Cocoa, Palm Bay, Daytona Beach, Clermont, Sanford/Lake Mary, Ocala, Kissimmee, Leesburg, and Metro West. The university partners with local community colleges to provide complete information services. Two examples of Web sites customized for Regional Campus needs are the Services for Distance Learners page <http://library.ucf.edu/Services/DistanceServices.asp> and the Regional Campus Libraries page <http://library.ucf.edu/BranchCampuses/locations.asp>. UCF librarians provide in-person service at partner campuses in Cocoa, Palm Bay, Daytona, Clermont, and Sanford as well as at other partnership sites by appointment.

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/BranchCampuses/Locations/default.asp>.

Office of Instructional Resources

Director: TBA; 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 with multimedia design and production, digital media, Webcasting, video streaming, interactive video course delivery (ITV), video production, digital photography, graphics, and a full range of multimedia classroom support services. OIR's Faculty Multimedia Center (CL1 202) provides multimedia production and training resources for faculty members. OIR's interactive video classroom (CL1 320) is used for videoconferencing and ITV course origination. OIR supports more than 490 advanced multimedia classrooms throughout UCF. Approximately 95% of all classrooms at UCF are multimedia equipped.

OIR also provides videoconferencing services. All Regional Campus sites, the Center for Distributed Learning in the Partnership II building, the Rosen College campus, and several locations on the Orlando campus have videoconference rooms. Contact OIR for further details at <http://www.oir.ucf.edu/> or 407-823-2571.

Course Development and Web Services

Director: Barbara Truman; LIB 107; 407-823-3718
<http://cdws.ucf.edu>

Course Development and Web Services (CDWS) supports UCF's online initiative: Online@UCF (<http://online.ucf.edu>), the 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 online course development and delivery. 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 members through the Teaching Online Web site (<http://teach.ucf.edu/index.html>).

Intercollegiate Athletics

Director: Keith Tribble; WD2; 407-823-2261
<http://www.UCFAthletics.com>

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, golf, football, soccer, tennis. Women's sports include basketball, cross-country, golf, rowing, soccer, softball, outdoor and indoor track and field, tennis, and volleyball.

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, graduate from their programs. The 6-year graduation rate for the Fall 2002 full-time cohort is 63 percent. The retention rate for Summer-Fall full-time 2007 students is 85.5 percent. The information is public and available for review on the Institutional Research Web site.

The UCF Arena

<http://www.ucfarena.com>

The new 10,000 seat UCF Arena, which opened Fall 2007, is home to UCF Men's and Women's Athletic events, competitions, tournaments and major University occasions including graduations and convocations. The Arena showcases major name talent, concerts, and touring shows.

The original UCF arena located behind and adjacent to the new Arena is now called "The Venue." An extensive renovation has been completed transforming it into a more intimate performance space featuring established, regional, and up-and-coming individual talent, bands, shows, special events and selected athletic events, including volleyball, men's and women's basketball practices, and basketball and cheerleading camps. Depending upon configuration, the facility can seat up to 1,800.

Please visit our Web site at <http://www.ucfarena.com>. For event, retail, or rental information, call 407-823-3070.

Campus Bookstores

There are two Barnes & Noble bookstores on the UCF main campus.

John T. Washington Center Location

The UCF Bookstore, a Barnes & 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. For more information call 407-823-2665 or visit the Web site at <http://www.ucf.bncollege.com>.

Knights Plaza Location

The Barnes & Noble @ UCF, located in the Knights Plaza next to the UCF Arena, is the official UCF graduation headquarters. Visit them for all of your graduation supplies, as well as a complete line of UCF clothing, logo gift items, general reading books, convenience/snack items, and a full service Cafe that proudly brews Starbucks coffee. For store hours and information, call 407-882-0364 or visit <http://www.shopucf.com>.

Transportation 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 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.

An inter-campus transportation service is provided between the UCF main campus and the Rosen College of Hospitality Management. It makes nine round-trip runs between 6:45 a.m. and 9:00 p.m., Monday through Thursday, during the Fall and Spring semesters, and seven round-trip runs between 7:00 a.m. and 7:45 p.m. during the summer semester.

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, Valencia Community College, and East campus. Commuters may connect to most anywhere in the Greater Orlando area. The LYNX buses normally operate at 30 to 60 minute intervals. Route maps may be obtained at the UCF Visitors Information Center and the Information Kiosk at the Student

University of Central Florida/Campuses

Union. Further details, including rates and information on special passes, may be obtained by calling LYNX at 407-841-8240, or from their Web site, <http://golynx.com>.

Orlando Shakespeare Theater in Partnership with UCF

Artistic Director: Jim Helsing: 812 E. Rollins St., Suite 100, Orlando FL 32803; E-mail: jimh@orlandoshakes.org
<http://www.orlandoshakes.org>

The Orlando Shakespeare Theater in Partnership with UCF, is Central Florida's professional classical theater. An AEA union company, the theater presents a signature series of Shakespeare and other plays, a theater for young audiences series, The Harriett Lake Festival of New Plays, and innovative educational programming that includes summer camps, a summer high school performance group, and the K-12 "Shakespeare Alive" and Shakesperience" programs. Performances are presented in Margeson, Goldman and Mandell Theaters at the Lowndes Shakespeare Center in Loch Haven Park.

The theater has achieved a position of national recognition, attracting artists from across the country. The theater has been featured in national publications such as Southern Living, Theater Week, Backstage, American Theater, Stage Directions 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 undergraduates are also available with the theater in many departments. \$10 rush tickets are available for UCF students 1/2 hour before performances with student ID. To purchase tickets, contact the box office at 407-447-1700. For internship information and other questions, contact Artistic Director Jim Helsing.

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>

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, Student Connection newsletter and discounts including 15% off all UCF logo merchandise at the UCF Bookstores
- FUN - Family Weekend, BBQ's, Homecoming, Oozeball 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 STRATEGY, MARKETING, COMMUNICATIONS, AND ADMISSIONS

Office of the Vice President for Strategy, Marketing, Communications, and Admissions (SMCA)

Vice President for Strategy, Marketing, Communications, and Admissions: Alfred Harms (Vice Admiral, U.S. Navy [Ret]), Orlando Tech Center, 12443 Research Parkway, Suite 301, Orlando 32826; 407-823-2232
<http://www.smca.ucf.edu>

Purpose Statement

Create, coordinate and deliver strategic planning, program assessment, analytical planning support, communications and quality enrollment that add value to the university.

Overview

The division is responsible for overall university strategic planning, organizational assessment, improved operational effectiveness and detailed planning support for myriad aspects of the university's mission.

The division is also responsible for communicating the success of the university through an integrated communications program, the coordination of media relations, the employment of creative broadcast services, and the attraction and enrollment of diverse, academically talented new undergraduate students.

As one of the nation's largest public universities, UCF is compelled to share its rich story and significant achievements in academics, campus life, research, economic development, and partnerships to its many audiences, including the UCF academic community, prospective students, corporate partners, alumni, donors, media representatives, and elected officials.

Institutional Research

Director and University Data Administrator: M. Paige Borden; Research Pavilion, 12424 Research Parkway, Suite 215, Orlando 32826; 407-823-5061
<http://www.iroffice.ucf.edu>

Institutional Research (IR) provides information of the highest quality, which is both timely and easily accessible, to facilitate and enhance decision-making, strategic planning, and assessment at UCF. The scope of the unit's responsibility embodies the university, state and federal agencies, and the general public.

IR provides electronic and web-based dissemination of official information to the University community (including the Board of Trustees, the various colleges, departments and other academic and administrative units), external agencies, and the Florida Board of Governors (BOG). IR generates, supervises or develops all official University data reports and state-required BOG reports, as well as, providing end-user data solutions and training to facilitate the decision-making process.

Operational Excellence and Assessment Support

Director: Patrice Lancey; Research Pavilion, 12424 Research Parkway, Suite 225, Orlando 32826; 407-882-0275
<http://www.oeas.ucf.edu>

The mission of the UCF Office of Operational Excellence and Assessment Support (OEAS) is to support efforts to improve the effectiveness and

efficiency of University operations and the quality of student learning outcomes through assessment.

OEAS will accomplish this by providing support to all administrative units and academic programs through integrated processes that include continuous quality improvement, survey development, data collection, analysis and guidance in assessment.

News and Information

Assistant Vice President: Grant J. Heston, Orlando Tech Center, 12443 Research Parkway, Suite 301, Orlando 32826; 407-823-5988
<http://www.news.ucf.edu>

News and Information is the university's primary media and public relations office. The office communicates relevant information about the university to its many publics.

News and Information supports the university's goals by working with the academic community to implement strategic communications initiatives.

The information provided by the office is in accordance with UCF's values of integrity, scholarship, community, creativity and excellence.

The office advises administrators, faculty and staff on media related issues. News and Information also provides content for the main UCF Web site, <http://www.ucf.edu>, and manages the university's news site, <http://www.news.ucf.edu>.

Regional Campuses Transfer Admission, Enrollment Services and Marketing

Assistant Vice President: Angela Peterson; University Towers, 12201 Research Parkway, Orlando 32826; 407-823-4547
<http://regionalcampuses.ucf.edu>

The Office of Transfer Admission, Enrollment Services and Marketing works in partnership with the Division of Strategy, Marketing, Communications, and Admissions to provide services to the Regional Campus students. The Office centralizes multiple functions with multiple sites to accommodate the access, convenience and value of attending the UCF Regional Campuses for degree completion.

Student Financial Assistance

Assistant Vice President: TBA; MH 120; 407-823-2827
<http://finaid.mca.ucf.edu>

The Office of Student Financial Assistance coordinates the eligibility and distribution of financial resources for all students. The office provides options to help students meet their educational goals through work study employment, comprehensive counseling, and information using print and electronic media. Comprehensive counseling is available by appointment. Due to confidentiality, counseling by phone and e-mail is limited.

Student Outreach Programs

Director: Rhonda Hall; Orlando Tech Center, 12479 Research Parkway, Bldg. 600, Suite 215, Orlando 32826; 407-823-5580
<http://www.reachout.ucf.edu>

The primary mission of Student Outreach Programs is to attract, motivate, and prepare underrepresented students from the local area



Division of Strategy, Marketing, Communications, and Admissions

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, through the efforts of two of programs.

The College Reachout Program (CROP) is supported by the Florida Department of Education and provides campus and school-based programs to strengthen the skills and likelihood of college success of participating students in grades 6-12, and the UCF Achievers Program, formerly the McKnight Center of Excellence, is supported by the Florida Education Fund and offers academic support and direct access to community-based programs for participating students in grades 6-12.

Television Services

Assistant Vice President: Richard Payne; Orlando Tech Center, 12443 Research Parkway, Suite 301, Orlando 32826; 407-823-1601
<http://www.ucftv.ucf.edu>

Television Services adds value to the UCF brand by developing and distributing television 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 vehicle through its video production, television program development, and distribution services units. Video production and distribution capabilities include studio and on-location video production, editing, and Vyvx video uplink services. Through strategic community partnerships with Bright House Networks and WBCC-TV, viewers in the Central Florida region are able to watch UCF television programs via antenna, cable, and satellite TV. Internet distribution expands the university's reach across the globe.

Undergraduate Admissions

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

Office hours are: Monday/Thursday 9 a.m. to 7 p.m., Tuesday/Wednesday/Friday 9 a.m. to 5 p.m.

University Analysis and Planning Support

Director: Sandra Archer; Research Pavilion, 12424 Research Parkway, Suite 215, Orlando 32826; 407-882-0285
<http://www.uaps.ucf.edu>

The office of University Analysis and Planning Support (UAPS) enhances the management capability within the University and increases UCF's ability to deliver an educational experience that increases student learning outcomes by providing timely data analysis, planning, and research support across a broad spectrum of management responsibilities, ranging from strategic planning to detailed program management. UAPS provides models and information relying on data that are relevant and meaningful to provide direct support as well as to empower academic and administrative units and external stakeholders to utilize models, analysis, and research results as the cornerstone for informed decision-making.

University Marketing

Associate Vice President: Terry K. Helms; Orlando Tech Center, 12443 Research Parkway, Suite 301, Orlando 32826; 407-823-5977
<http://universitymarketing.ucf.edu>

University Marketing is a full-service integrated communications and marketing department whose staff is comprised of award-winning graphic design and copywriting professionals.

University Marketing works with UCF clients to reach their goals through counsel and development of important, reputation-building materials.

In addition to working with internal clients, University Marketing extends its reach to metro Orlando and beyond through its branding efforts. Under the umbrella-themed "UCF Stands For Opportunity," the unit increases the university's visibility and enhances its reputation by distributing key UCF messages in various media including print, television, radio, and Internet.



DIVISION OF STUDENT DEVELOPMENT AND ENROLLMENT SERVICES



Division of Student Development and Enrollment Services

Vice President for Student Development and Enrollment Services:
Maribeth Ehasz; MH 282; 407-823-4372

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 promote and support student learning both inside and outside the classroom. Our goals are guided by student learning outcomes that insure student success.

The SDES Vision is: "SDES empowers students to succeed by adding values."

Student Development and Enrollment Services empowers students to succeed by providing learning opportunities that support the development of the core values: integrity, scholarship, community, creativity and excellence.

Goals of the division are to:

- Provide quality programs, services and learning environments that 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.
- Embrace diversity and foster student engagement in the global community.
- Build collaborative partnerships.

Academic Services for Student-Athletes (ASSA)

Director: Mark Gumble; WDSC 104; 407-823-5896
<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;
- Assisting 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.

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 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, and referrals for treatment. 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.

HLP 2701, a three hour elective credit course, provides 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.

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, 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.

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.

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.

Division of Student Development And Enrollment Services

Campus Faiths and Ministries

Director: Brad Crawford; SU 305; 407-823-5336
<http://www.cfm.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.

Career Services

Director: Lynn Hansen; FC 185; 407-823-2361
<http://www.career.ucf.edu>

Career Services 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 specialists. These comprehensive services are designed to help First Year through Graduate students with all phases of career development to include:

- Major and Career Choices
- Academic and Career Information
- 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: Stacey Pearson; COUN; 407-823-2811
<http://www.counseling.sdes.ucf.edu>

The Counseling Center serves enrolled UCF students, who seek assistance with 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 including psychologists, mental health counselors, social workers, and counselors in training 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
- Consultation to Faculty and Staff

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

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, employees of the university, and community members. Operating hours are 7:30 a.m. to 5:30 p.m., Monday through Friday.

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, and e-mail and phone communication. 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 selected off-campus facilities. FYAE also offers academic advising at their satellite office located in the Pegasus Landing affiliated housing area. 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.

Academic Exploration Program (AEP)

PH 116; 407-823-3789
<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 make an informed decision 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 services are also available to first-year students who are unsure about their major choice and to those considering a change of major.

First Year Experience

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

The First Year Experience Office (combining orientation with extended first year transition programs including Pegasus Palooza, LINK and the Strategies for Success course) 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 by visiting the First Year Web site at <http://www.orientation.sdes.ucf.edu>. In addition, LINK assists FTIC students in their transition by creating, coordinating and promoting campus-wide co-curricular educational programming and activities. Students also have the opportunity to serve as Orientation Team (O-team) leaders and peer mentors for the Strategies for Success course.

LINK First Year Experience Program

Coordinator, First Year Experience: TBA; 407-823-5105
<http://www.link.ucf.edu>

Learning and Interacting with New Knights (LINK), a 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 freshmen out having fun, meeting people, and getting connected to UCF. Through LINK, new Knights will be exposed to programs and events that will enhance their first year experience and overall success and satisfaction at UCF.

The LINK Program works with various UCF 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 to encourage their active participation.

As an incentive to encourage first-year students to participate in programs, freshmen receive points for each LINK program in which they participate. These points are known as "LINK Loot." Students receive LINK Loot points by swiping their UCF ID card at the beginning or end of each LINK program. First year students can use their LINK Loot points to bid on prizes at the LINK Auction, held at the end of each semester. These points do not roll over between semesters in order to give students a fresh opportunity to get involved at the beginning of each new semester. In the past, prizes have included a \$1300 tuition scholarship, laptop computer, Nintendo Wii, television, iPods, theme park tickets and much more.

Last Fall semester, over 200 programs were LINK-connected, giving freshmen numerous opportunities to earn points and get connected to UCF. In the five years since its inception, LINK has awarded \$11,700 in tuition scholarships and over \$25,000 in other prizes. No need to sign up for LINK--as long as you are a first time in college student, you can start earning points NOW! But don't wait; LINK is only for first year students and ends in April of spring semester!

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 students and the university community. This office fosters and promotes the development of national fraternities and sororities by providing advising, 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).

Sororities or fraternities can offer students a "home away from home," a scholastic support system, networking opportunities, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently we have 44 fraternities and sororities on UCF's campus with more than 3,000 active Greek 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 their governing body. Whether 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 involvement opportunities at the University of Central Florida.

Health Services

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

Every health fee paying student is entitled to the benefits provided through UCF Health Services (HS), which are outlined in printed material available at the Health Center or on its Web site at <http://hs.ucf.edu>.

The nationally accredited primary care program is staffed by Board-certified physicians, advanced registered nurse practitioners, physician assistants, registered nurses, licensed practical nurses, certified medical assistants, pharmacists, and a full complement of other medical support personnel who provide laboratory and radiology services. The state-of-the-art 50,000 square-foot Health Services building is centrally located on the UCF Orlando main campus. And for the benefit of the 2,000 students living near The Arena, Knight Aide provides convenient access to satellite pharmacy, O.T.C products and other consumer products. Students at the Rosen College of Hospitality Management have the option of health care services at the Rosen Medical Clinic close to campus or at UCF HS on the Orlando campus.

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. Most office consultations and programs are provided without charge. However, laboratory tests, x-rays, medications, allergy maintenance (co-pay), flu shots, immunizations and some procedures and supplies require additional but significantly reduced payments, which may be made with cash, credit card, personal check, or charged to the student's account.

The UCF HS Insurance office staff will assist students file claims with their medical insurance company. Currently, UCF HS physicians are contract providers with BCBSFL, United Healthcare, and AvMed. This entitles faculty, staff, and students to use UCF HS providers for their primary care needs and realize cost savings through covered services.

An optional health and accident insurance plan for students by Aetna Student Health Insurance (www.aetnastudenthealth.com) that is endorsed by UCF may be purchased by response to periodic mailers or by contacting the UCF HS Insurance Office (407-823-6426). This voluntary plan is separate from the health fee students are required to pay each semester. However, when purchased, the insurance will cover most of the Health Services charges and also provides benefits for services that are beyond the scope of the campus Health Services program, such as hospital referrals and specialty care (subject to co-pays and deductibles). Charges incurred outside the Health Center are the responsibility of the student, including transport by ambulance.

In addition to access for clinical care services, the health fee entitles UCF students to use the Wellness Center located in the Recreation and Wellness facility. The Wellness Center recognizes the role of lifestyle in health and disease prevention by offering a wide range of health promotion services provided by professional health educators and peer health educators/advocates, including HIV confidential blood testing and oral HIV testing, biofeedback, nutrition and weight management, massage and physical fitness and lifestyle assessment. Opportunities for student development include: Student Health Advisory Committee, Student Wellness Advocate Team (SWAT), Graduate Assistantships, or becoming a Wellness Peer Educator or Health Advocate.

When the Health Center is closed, students may obtain information and help from Health Services telephone message at 407-823-2701, its Web site, FreeMD (the web-based interactive system to help make decisions about health needs), 24 hour Nurse Line at 1-800-556-1555, or the Wellness Center at 407-823-5841. If the situation is urgent, students should call 911 or access one of the hospitals and walk-in clinics identified via <http://hs.ucf.edu> (charges for services are the student's responsibility).

Wellness Center

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

The Wellness Center, a division of UCF Health Services, is located on the first floor of the Recreation and Wellness Center. The professional staff and certified peer educators encourage students to make low-risk and responsible decisions about college health and wellness issues through one-on-one and peer group interactive programs and campus awareness events.

Program topics include good nutrition on a student budget, relaxation strategies for busy students, weight management, body image and sexuality issues. These can be scheduled in residence halls, club meetings, classes and at the Wellness Center.

Free and low-cost services include the Comprehensive Health Assessment and Motivation Program (CHAMP), licensed massage therapy, biofeedback relaxation therapy, nutrition workshops and drop-in appointments with a registered dietitian/nutritionist, confidential and anonymous HIV testing, and body fat and blood pressure checks.

Many participants can earn "LINK Loot."

Housing and Residence Life

Director: Christi Hartzler; HAB; 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

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amount of space is available for upper-class students. Married and family student housing is not available. All classes of students are all welcome at the Rosen College of Hospitality Management Student Apartments.

Students can apply for housing after being admitted to the university. The online application process is available through myUCF. 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 as soon as possible. Application periods include fall/spring academic year agreements with a separate application for summer or 11.5 month annual agreement.

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 Towers at Knights Plaza located on the Orlando main campus or the Rosen College of Hospitality Management Student Apartments.

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

Several different meal plans are available through UCF Dining Services. Information about meal plans is available online at <http://www.ucfdining.com>.

LEAD Scholars Program

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

The LEAD 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, alumni and community leaders as a way to make an immediate connection with academic and community life.

The primary goal of the LEAD Scholars Program is to prepare students to be effective 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 two-credit hour leadership courses. These courses provide the primary means of facilitating the focus for study, advisement and educational activities as it relates to leadership, academic excellence and community service. First time in college students from any major are eligible to apply to the LEAD Scholars Program.

The LEAD Scholars 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.

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); coordinates the Brother to Brother mentoring program; 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.

Off-Campus Student Services and Student Neighborhood Relations (OCSS-SNR)

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

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

OCSS-SNR also provides UCF students who live off-campus with information regarding a variety of on-campus programs and services. OCSS-SNR 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.

The student neighborhood relations program is designed to create a positive relationship between UCF Students living in surrounding neighborhoods and the permanent community residents.

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 the advisement and coordination of the following student groups: Campus Activities Board (CAB), Fraternity and Sorority Life, Homecoming, Knightcast, Knights of the RoundTable (KoRT), Late Knights, Multicultural Student Center (MSC), Student Government Association (SGA), and Volunteer UCF (VUCF).

Recreation and Wellness Center

Director: James Wilkening; RWC; 407-823-2408
<http://www.rec.ucf.edu>

The Recreation and Wellness Center (RWC) supports and strengthens the mission of the University of Central Florida. The mission of the department 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: Aquatics, Fitness, Intramural Sports, Outdoor Adventure and Sport Clubs. The Recreation and Wellness Center and the programs it offers is open to all students with a valid UCF ID. Memberships are available for non-students.

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
- Nine tennis courts

RWC Park:

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

Challenge Course:

- High Elements; 10 total; on two levels between 25-45 ft.
- Low Elements; 11 total

Lake Claire Recreation Area:

- Two reservable pavilions with grills
- Equipment available for checkout: kayaks, canoes, pedal boats, cornhole and ladderball
- Pier with beachfront
- Open grass area

Aquatics

The Aquatics program is for those participants who enjoy swimming, aqua aerobics, or simply relaxing in the pool.

Fitness

The Fitness program promotes health and wellness in many ways. Group Exercise classes including Yoga, Pilates, Spinning, traditional aerobic and resistance classes and assist participants in improving their cardio respiratory fitness while also building strength and endurance. Personal Training and Fitness Assessment services are available to assist in evaluating fitness levels and providing guidance to reach or maintain fitness and wellness goals. The Assisted Workout Program benefits those who need assistance and guidance with their workout. Graduate students working towards a degree in physical therapy have teamed up with the Recreation and Wellness Center to provide this opportunity to students with disabilities.

Intramural Sports

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.

Outdoor Adventure

The Outdoor Adventure program is the university's resource for adventure programming. Outdoor Adventure provides guided backpacking, sea kayaking, canoeing, and cycling trips that range from weekend trips around Florida and the southeast to week-long adventures in the mid-west and the east coast. The challenge course is designed to provide exciting, experiential opportunities that focus on leadership, communication, self/group awareness and inter-personal skills. The climbing wall, located in the RWC, allows participants to experience the thrill of rock climbing indoors. Lake Claire Recreation Area located just north of greek row is available for students to reserve for special events or enjoy the beachfront pier. Equipment is available with a valid UCF I.D. To make reservations for the Challenge Course and Lake Claire please visit our Web site at <http://www.rec.ucf.edu>.

Sport Clubs

The Sport Clubs program is an agency of the UCF Student Government Association (SGA) and is advised by the Sport Club Staff at the UCF Recreation & Wellness Center (RWC). Each sport club is a Registered Student Organization (RSO) with the Office of Student Involvement (OSI). Sport Clubs exist to promote and develop interest in a particular sport activity. Interests may be competitive, recreational, instructional or any combination of the three. Participation in Sport Clubs is strictly voluntary. As RSO's, clubs are developed by students for students under the supervision of the Recreation & Wellness Center. The Sport Club staff of the RWC believes that involvement in the Sport Club Program enhances development, leadership, and the overall college experience for students by supplementing skills learned in the educational realm. There are currently 34 active Sport Clubs including: Badminton, Baseball, Bowling, Brazilian Jiu-Jitsu, Butokukan, Crew, Cuong-Nhu, Fencing, Ice Hockey, Karate, Kendo, Kiteboarding, Lacrosse, Mixed Martial Arts, Rock Climbing, Roller Hockey, Rugby, Soccer, Softball, Surf, Swimming, Table Tennis, Tennis, Tri-Knights, Ultimate Frisbee, Volleyball, Water Polo and Wrestling.

Regional Campuses Student Services

Assistant Vice President: A.J. Range; University Tower, Suite 101, 12201 Research Parkway, Orlando, FL 32626
407-823-4547;

Director, Student Services, Eastern Region: Diana Weidman

Director, Student Services, Southern Region: Terry Exum

Director, Student Services, Western Region & Central Region: Pamela Brady

The UCF Daytona (386-506-4024 or erss@mail.ucf.edu), UCF Cocoa (321-433-7950 or rsrs@mail.ucf.edu), and UCF South Lake, Ocala, Leesburg, West Orlando, South Orlando, Clermont (352-536-2219 or

wrss@mail.ucf.edu) Student Services offices provide student services at the regional campuses, which include transfer orientation, career services, experiential learning, veteran services, transition assistance, and accommodations for students with disabilities. In addition, the offices provide programming and assistance to student organizations as well as provide various standardized test information.

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, *Undergraduate Advising Guide*, the online *Undergraduate Catalog*, online *Web Enrollment Guide*, the efficient utilization of classroom resources, readmissions, SUS transient students, residency reclassifications, student veteran services, and Commencements.

Veteran Services

Assistant University Registrar: James Middlekauff; 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 for VA educational benefits. A copy of the "Student Veteran Handbook" can be obtained on the GI Bill Web site.

UCF, being a member of SOC (Service Members Opportunity College), provides credit for various 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 Web site 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.

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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.

Rosen College of Hospitality Management Campus Life

Director: Tony Perry; 9907 Universal Blvd., Suite 204, 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. Staffing and services provided through this office include: student club and organization support, off-campus student housing information, student activities programming guidance and support, and The Golden Rule interpretation.

Sophomore and Second Year Center (SSYC)

Director: Robert Snow; PH 215; 407-823-3375
<http://www.sophomore.sdes.ucf.edu>

The Sophomore and Second Year Center (SSYC) has a mission to retain sophomore and second year students at the University of Central Florida. This mission is accomplished by providing academic advising and support services to targeted student populations, developing and conducting programs that guide students toward declaration of a major (degree program), connecting students to the appropriate campus resources and services, providing enhanced information resources through technology, and assisting students with their progression towards graduation from UCF.

The center has primary responsibility for connecting undeclared (no major) and undecided sophomores and second year students to various campus resources, academic advising for major & career exploration, academic support services, and transition assistance to the appropriate college advising office or department. SSYC also provides advising support to 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.

Student Academic Resource Center (SARC)

Director: Jennifer Wright; 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, 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 portion of the General Knowledge exam.

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.

Student Disability Services (SDS)

Director: Pamela Rea; FC 132; 407-823-2371
<http://www.sds.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 and may require academic accommodations must contact Student Disability Services. Students submit appropriate disability documentation, along with a Request Documentation Review form, to SDS. SDS staff will contact the student either to schedule an intake interview or request further documentation. Students must be registered with SDS to be eligible to receive academic accommodations. 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).

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 student 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 include free printing in the SGA computer lab, discount tickets to movie theaters and theme parks, legal services, recreational opportunities through the Recreation and Wellness Center, programming through the Campus Activities Board, Homecoming, Volunteer UCF, Late Knights, Multicultural Student Center, and Knightcast, and much more. Money allocated by the Student Government Association for these services comes from Activity and Service Fees that students pay during registration. Additionally, student organizations may receive funding for events, activities, 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, comprised of the Student Body President, Vice President, and staff, oversees the daily administrative operation of SGA. The legislative branch funds student 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 SGA or how your student organization can receive funding, contact the Student Government Association office.

Office of Student Rights and Responsibilities

Assistant Vice President and Director: Patricia A. MacKown; FC 142; 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 OSRR, or can be viewed on the internet at <http://www.goldenrule.sdes.ucf.edu>.

Dispute Resolution Services

Coordinator: Patty Farris; FC 142; 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.

Office of Student Conduct

Associate Director: Dana Juntunen; FC 142; 407-823-4638

<http://www.osc.sdes.ucf.edu>

The Office of Student Conduct addresses alleged violations of the "Rules of Conduct" contained within The Golden Rule student handbook. 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 student handbook and copies may be obtained at the Office of Student Conduct, or can be viewed on the internet at <http://www.goldenrule.sdes.ucf.edu>.

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 142; 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 the Student Legal Services office. 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 restaurants including Joffrey's Coffee, Smoothie King, Subway, Sbarro, Mrs. Field's, Pretzel Time, Wackadoo's Grub and Brew, Qdoba Mexican Grill, Burger King, Phat Philly, Asian Chao and Corner Cafe. Retail stores include Park Avenue CDs, Greek Unique, KnightStop Convenience Store, College Optical, and the UCF Computer Store. Other services located in the Union are the SGA Ticket Center, Kaplan Test Services, ATMs from SunTrust, Bank of America, and the UCF Credit Union as well as a Postal Kiosk and a DVD and Video Game Rental machine. For information, call 407-823-0001.

Transfer and Transition Services

Director: Charlene A. Stinard; PH 221; 407-823-2231

<http://transfer.sdes.ucf.edu>

Transfer and Transition Services helps transfer students make a seamless transition for 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;
- Referral to DirectConnect advisors at partnering community colleges: Brevard, Lake Sumter, Seminole, and Valencia Community Colleges;
- Advising for transfer students who are undeclared majors, undecided, or changing majors;
- Current information about university programs and policies including entrance and exit requirements;
- Advocacy and assistance in resolving transfer issues;
- Transition advising services for currently enrolled juniors and seniors who are undeclared or changing majors;
- Peer Mentors provide transfer advising services and connections to the campus community, including Transfer Knights club;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities; and,
- Articulation workshops and conferences involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions.

University Testing Center (UTC)

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)

Upward Bound Program

Director: Rebekah McCloud; PH 208; 407-823-5595

<http://www.upwardbound.sdes.ucf.edu>

The Upward Bound Program provides first-generation, low-income high school students with access to postsecondary education as full participants. The Program is designed to enhance the academic and personal skills of students while preparing them in high school for college admission, retention, and graduation. This program is supplementary to the students regular high school curriculum, and will assist students to overcome barriers by providing tutoring, mentoring, academic workshops, academic counseling, academic instruction, assistance with standardized testing, life skills workshops, cultural events, college visits, assistance with the college admissions, and the financial aid process.

UNDERGRADUATE ADMISSIONS



Undergraduate Admissions

Associate 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 commu-

nity college visits by admission representatives. It also provides the opportunity to meet one-on-one with an admission representative on campus. Please visit our Web site 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 (First-Time-In-College: 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 can be made by visiting our Web site at <http://www.admissions.ucf.edu>. Group tours of up to 80 or special requests may be accommodated and can be requested by visiting our Web site.

Meetings with admissions representatives to discuss particular concerns about admission to the University are available. You may contact the Undergraduate Admissions office at 407-823-3000 or visit us at our Web site. Information sessions and campus tours are also available for students interested in our Rosen College of Hospitality Management on International Drive. Please contact them at 407-903-8000 for further information.

Application for Admission

All interested applicants should complete the University of Central Florida "Undergraduate Admissions Application" online at <http://www.admissions.ucf.edu> and submit the \$30 (in U.S. Currency), non-refundable application fee. Students should apply **several** months in advance of an anticipated start date. Questions concerning admission requirements and applications can be forwarded to admission@mail.ucf.edu.

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 can be found at <http://www.housing.ucf.edu>. 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, all ages, 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 6 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 complete the Reactivation Form online at https://www.admissions.mca.ucf.edu/secure/react_app_login.asp by the published application deadline date. 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 or may be viewed on the Web site at <http://www.orientation.ucf.edu>.

Admission Categories

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

- A. Freshman (First-Time-In-College: FTIC)
 - B. Dual Enrollment (includes early admission and dual enrollment, on- or off-campus)
 - C. Transfer
 - D. Second Bachelor's Degree
 - E. Transient (one term enrollment only, not from a Florida public university)
 - F. 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 Department of Education 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 SAT Reasoning Test or the 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 (IB), Advanced Placement (AP), Cambridge Advanced International Certificate of Education (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

Undergraduate Admissions

Applicant Eligibility

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

If the High School GPA is: HS GPA	Minimum test scores must be: SAT or ACT
2.0	1680 25
2.1	1620 24
2.2	1620 24
2.3	1560 23
2.4	1510 22
2.5	1450 21
2.6	1450 21
2.7	1450 21
2.8	1450 21
2.9	1390 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 SAT Reasoning Test or ACT;
- written letter of recommendation from high school counselor or school district permission form; and,
- 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 apply online at <http://www.admissions.ucf.edu> 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 2.0, and must have a cumulative minimum GPA of 2.0 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 2.0 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 2.0 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.ucf.edu>. 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 **March 1**; for Spring semester, **September 1**, and for Summer term, **January 1**.

- Submit the completed UCF admissions application form with the required \$30.00 non-refundable application fee (check or money order in U.S. currency). An online application is available on our Web site at <http://www.admissions.ucf.edu>.
- 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 and a GPA computation 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.

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.

Undergraduate Admissions

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
7101 SW 102 Ave.
Miami, FL 33173
(305) 273-1616

World Education Services
P.O. Box 5087
Bowling Green Station
New York, NY 10274
(212) 966-6311

AACRAO's International
Education Services
One Dupont Circle, NW
Suite 520
Washington, DC 20036-1135
(202) 296-3359

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 to UCF Health Services 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 UCF Health Services. 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. For questions, call UCF Health Services at 407-823-3707 or go to their Web site at <http://www.hs.sdes.ucf.edu/healthcenter/insurance.html> to view the State of Florida requirements specified on the "Medical Insurance Compliance Verification Form."

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 AACRAO's International Education Services, 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 Degree Audit, which applies earned credits to the intended degree program. The 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*.

STUDENT FINANCIAL ASSISTANCE



Office of Student Financial Assistance

Executive Director: Mary H. McKinney; MH 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. - 5:30 p.m.
Tuesday, Wednesday, Friday: 9:00 a.m. - 5:00 p.m.
Thursday: 1:00 p.m. - 5:30 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 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 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 the Federal Pell Grant, Federal Stafford Loan, and Federal PLUS Loan;
- Students should not wait to be admitted to UCF before applying for financial aid;
- Federal Pell Grants and Federal 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 and do not complete their financial aid file until after July 15th should not expect their aid to be paid until well after the beginning of the fall semester;
- A broad range of scholarships is available with diverse criteria. Please review the scholarship listing 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 verification. If selected, students will be required 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;
- 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 or award information provided on the Student Center on myUCF. 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;
- 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 determined by the FAFSA;
- A male applicant must be registered with Selective Service, if applicable.

Program Eligibility Charts

To ensure enrollment in sufficient hours for the various financial aid programs, please refer to the Program Eligibility Charts on the Web site, under Receiving Aid.

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 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. Please refer to the Web site for the estimated cost of attendance.

Estimated Cost of Attendance for 2009-2010 Undergraduate Students

Fall/Spring based on 14 hours per term

Living Arrangement	Florida Residents		Non-Florida Residents	
	On/Off Campus	Parent/Relative	On/Off Campus	Parent/Relative
Tuition and Fees	\$3,846	\$3,846	\$19,160	\$19,160
Books	924	924	924	924
Room & Board	8,574	4,450	8,574	4,450
Transportation	1,800	1,800	1,800	1,800
Personal Expenses	2,276	2,276	2,276	2,276
Total Costs	\$17,420	\$13,296	\$32,734	\$28,610

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 may be 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 at UCF.

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 be considered for 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, if required, 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 deferment of tuition and fee payments. Deferments 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 term 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 deferment process occurs automatically if the student is meeting all general eligibility requirements and has enrolled in sufficient hours for the financial aid program/s. Please refer to the Program Eligibility Charts on the 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 or The Textbook Purchase Program 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 term. 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 below)
- For detailed SAP policy information, please refer to the Office of Student Financial Assistance Web site at: <http://finaid.ucf.edu>.

CLASSIFICATION	Maximum UCF Hours Allowed for Degree Completion
Undergraduate All 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 Degree-Seeking	100 Attempted Hours (Including all Graduate hours)
Doctoral	120 Attempted Hours (Including all Graduate Hours)
Doctor of Medicine	Satisfactory academic progress for continued enrollment, else loss of access to federal assistance programs

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 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 that supports 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 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) at the beginning of the academic 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 currently serving on active duty in the U.S. Armed Forces for purposes other than training;
- 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.)
- at age 13 or older, both your parents were deceased, you were in foster care or you were a dependent/ward of the court;
- you are an emancipated minor as determined by a court in your state of legal residence;
- you are in legal guardianship as determined by a court in your state of legal residence;
- your high school or school district homeless liaison determined you were an unaccompanied youth who was homeless;
- you were determined, by the director of an emergency shelter program funded by the U.S. Department of Housing and Urban Development, to be an unaccompanied youth who was homeless; or,
- you were determined, by the director of a runaway or homeless youth basic center or transitional living program, that you were an unaccompanied youth who was homeless or were self-supporting and at risk of being homeless.

Student Financial Assistance

Dual Enrollment

Students who have been approved to take classes at another institution while attending UCF 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 taken elsewhere 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 term 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; and,
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 the UCF Registrar's Office with academic transcripts, confirming that the attempted hours are completed. 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 Registrar's Office is required to notify The National Student Loan Data System (NSLDS) 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.



STUDENT TUITION AND FEES

Student Accounts Office

Associate Controller: Dan Mayo,
MH 107, 407-823-2433
<http://www.fa.ucf.edu/Cashier/Cashier.cfm>

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: 2009-2010 tuition and fees had not been established at the time of this publication. Rates for the 2009-2010 academic year will be available in early July 2009. Fees are subject to change without notice.**

Tuition and Fees: Tuition and fees are established by the State Legislature and the University Board of Trustees and are subject to change without notice. Fees are affected by residency status. Tuition and fees are charged per semester or term for 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 24/7 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.** Generate and print an initial Fee Invoice after initial registration of courses. Courses that are added or dropped after initial registration of courses require that a new Fee Invoice be generated and printed; this must be compared to initial invoice to ensure that the fees are adjusted.

Fee Payment Deadlines: All University tuition and fees must be paid by the published dates. Tuition and fees not paid by the payment deadline 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

2008-2009 Fee Schedule*

Fees Per Credit Hour	Florida Resident		Non-Florida Resident	
	Undergraduate (0000-4999)	Graduate (5000-7999)	Undergraduate (0000-4999)	Graduate (5000-7999)
Tuition	\$82.03	\$237.56	\$82.03	\$237.56
Out-of-State	0.00	0.00	\$491.41	\$754.96
Building Fee	\$2.32	\$2.32	\$2.32	\$2.32
Capital Improvement Fee	\$2.44	\$2.44	\$2.44	\$2.44
Financial Aid Fee	\$4.10	\$11.87	\$4.10	\$11.87
Non-Resident Financial Aid Fee	0.00	0.00	\$24.57	\$37.74
Activity and Service Fee	\$10.09	\$10.09	\$10.09	\$10.09
Athletic Fee	\$12.10	\$12.10	\$12.10	\$12.10
Health Fee (per hour)	\$8.59	\$8.59	\$8.59	\$8.59
Transportation Access Fee	\$7.59	\$7.59	\$7.59	\$7.59
Total Per Hour Fees	\$129.26	\$292.56	\$645.24	\$1,085.26

2008-2009 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	\$82.03	0.00	\$82.03	0.00
Non-Resident Fee	0.00	0.00	\$491.41	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	\$4.10	0.00	\$4.10	0.00
Non-Resident Financial Aid Fee	0.00	0.00	\$24.57	0.00
Activity and Service Fee	\$10.09	0.00	\$10.09	0.00
Athletic Fee	\$12.10	0.00	\$12.10	0.00
Health Fee (per hour)	\$8.59	0.00	\$8.59	0.00
Transportation Access Fee	\$7.59	0.00	\$7.59	0.00
Repeat Course Fee	\$175.84	0.00	\$175.84	0.00
Total Per Hour Fees	\$305.10	\$0.00	\$821.08	\$0.00

Other Fees: Resident and Non-resident*

Distance Learning Course Fee (per hour)	\$18.00
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
Repeat Course Fee (per hour)	\$175.84
Equipment Fee (per term, for use of equipment)	up to: \$90.00**
**These fees are subject to change by action of the Board of Trustees.	
Differential Tuition Fee (per hour)	\$2.32***
***Charged to new or re-admitted students as of Fall 2007. Students with Florida Prepaid contracts purchased before 07/01/07 are exempt.	
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 up to \$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: 2009-2010 tuition and fees were not available at the time of this publication. Rates for the 2009-2010 academic year will be available in early July 2009.

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 placed on hold, my account may be referred to a collection agency, and I may incur other financial consequences."

Payment Procedures

Payment must be received no later than the fee payment deadline or postmarked one day prior to the fee payment deadline 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

E-Pay — <https://my.ucf.edu> — E-Check or credit card — nonrefundable \$10 convenience fee per transaction. Payments made at anytime

Student Tuition and Fees

on the date of the published fee payment deadline will be considered on time.

Mail – Please do not send cash — Include the student's name and 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 office 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

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 through E-Pay.

Other Forms of Payment

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

Financial Aid – see **Student Financial Assistance for rules and procedures**. All fees not deferred 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 will automatically 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 submitting a request not to bill FPP on or before the first day of the Drop/Swap and Add period.

The standard plan will pay \$90.89 per credit hour (graduate or undergraduate level) for the 2008-2009 academic year. The plan does not cover the local fees of \$38.37 per credit hour, material/supply fees, equipment fees, Distance learning course fee or the UCF ID Service and Access fee. Florida Prepaid with the local fee plan, which is indicated on the Florida Prepaid Tuition Plan card, will cover \$121.67 per credit hour. For further details on the Florida Prepaid Tuition Plan please visit our Web site <http://www.fa.ucf.edu> and click Forms. Then click on Student Services. Scroll down to Florida Prepaid Tuition Plan Procedures.

Note: the 2009-2010 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 become 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 courses, 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. **Prior to enrolling** into courses each term, refer to the Registrar's Office Web site at http://www.registrar.ucf.edu/State_UCF.html for eligibility requirements, course restrictions, and the waiver application form. 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. 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 courses, third-attempt repeat courses and surcharges, co-ops, or applied individualized instruction in music, art, or dance, etc. 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 by the end of the 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 an administrative 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. If approved, a Late Withdrawal does not result in a refund of tuition and fees.

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 to any bank of their choice. 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. Go to the Student Accounts link, then click on Direct Deposit and follow the instructions.

Past Due Accounts

All financial obligations to the University must be met. **Failure to meet obligations can result in the withholding and denial of registration, diploma, transcripts and readmission to the University.** The services of a professional collection agency and recourse to the courts may also be invoked if deemed necessary. All costs of collection, including attorney's fees, are 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 deferment) 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 for the term, who re-register, or who enroll for the first time that term during Late Registration and Drop/Swap and Add period. The Late Registration Fee is \$100.00 per term.

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 Coordinator, 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.

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; thereafter, the Registrar's Office will review student requests for changes in residency for Undergraduate Students. The College of Graduate Studies will review student requests for changes in residency for graduate students. 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 domicile 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,

Student Tuition and Fees

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

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 the College of 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 for Undergraduate Students. The College of Graduate Studies will review student requests for changes in residency for graduate students. 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) or Graduate Studies (MH 230). 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 must 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 does not automatically establish 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 residency 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) or Graduate Studies (MH 230) prior to the close of "Late Registration and Add period" for the term in which Florida residency is requested. Documentation received after the last day of "Late Registration and Add period" 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 or Graduate Studies 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. 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 UCF Orientation that will provide:
 - a. Initial academic advising in a group setting and preparation for the first term, 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; and,
 - 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 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 (SSYC)** - 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 215)

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.

The Burnett Honors College

New students will:

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

Continuing students will:

1. Contact the department of their major and meet with their 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 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; and,
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/minor advisor concerning major/minor requirements and with an advisor in CAHSA regarding all other issues. CAHSA is located in Colbourn Hall (CNH) room 202 and advisors can be reached by phone at 407-823-3312 or via e-mail at cahsa@mail.ucf.edu. Students can also access CAHSA's Web site at: <http://www.cahsa.ucf.edu>

New students will:

1. Meet with a CAHSA advisor in a group setting during Orientation to discuss college policies and procedures;
2. Meet with a major advisor to discuss major requirements, career opportunities, and plan a class schedule;
3. Register for classes at a central location; and,
4. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Continuing students will:

1. Meet with their major and/or minor advisor in the department to review academic progress and plan a program of study for subsequent semesters. Review this plan each term with their major/minor advisor and prior to registration;
2. Access their Degree Audit at least every term and understand all degree requirements;
3. 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/minor program; and,
4. Meet with their major/minor advisor to conduct a graduation review of major/minor requirements in the semester prior to the intended semester of graduation. After seeing the major/minor advisor and in the semester prior to the term of graduation, eligible students will receive an e-mail from CAHSA indicating how to file their "Intent to Graduate" forms and in order to conduct a graduation review. 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 Degree Audit and catalog to better understand degree requirements and learn how to read a Degree Audit;
3. Meet with your advisor in the Office of Undergraduate Student Support (USS; BA2 101) during their first enrolled term to petition transfer work into their degree program;
4. Meet with a Career advisor in the College of Business Administration, BA2 Room 222 (Career Services Satellite Office), 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;

Academic Advising

2. Pick up your 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 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 Affairs (ED 110) if their major is Education Pending and be advised in the Academic Advising Center (ED 175) if their major is Elementary Education. Academic advising sessions may be scheduled by calling (407) 823-3723 or (407) 823-5369; and,
3. Be assigned to an academic advisor in the area of their major upon completion of College of Education admission requirements. The academic advisor's name and telephone number appear on the Degree Audit to assist students in making an advising appointment.

Continuing students will:

1. Set up an appointment with an academic advisor **if accepted in a major** or the Office of Student Affairs, **if a "pending major"**, to review academic progress and to develop an academic plan. Students are expected to review their plan of study each term with an advisor prior to registration;
3. Register at scheduled appointment time in myUCF. Students must complete any changes to their schedules by the end of the published Add period; and,
4. File an "Intent to Graduate" on-line 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 term 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 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 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 the "Intent to Graduate" through myUCF and meet with an advisor for graduation check 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;
3. Plan an appropriate first semester class schedule; and,
4. Meet with an advisor in the COHPA Undergraduate Student Services during the first few months of the first term to be advised toward the major.

Continuing students will:

1. See the COHPA Undergraduate Student Services (HPA2, 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 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 by the end of the term prior to the term in which graduation will occur.

College of Medicine

Burnett School 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 HPA2, room 335 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 Degree Audit, registration time, and search for classes (once the class schedule is available) through myUCF;
5. Register for courses at the scheduled appointment time. Complete all schedule changes by the end of the published add period;
6. File the "Intent to Graduate" through myUCF and meet with an advisor for graduation check in the 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 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 term.

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, in 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 pre-professional 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:

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.

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 term class schedule.

Continuing students will:

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

College of Sciences

Although students may have multiple advisors, College of Sciences majors must meet with their faculty academic advisor in their major department and and/or the staff of the College of Sciences - Academic Support (COSAS, located in 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 plan what courses to take;
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 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 COS courses must be handled in COSAS;
5. Refer to COSAS any questions pertaining to the Degree Audit regarding GEP, CLEP, AP credit, Gordon Rule, university credit hour requirements, as well as policies and procedures. Questions about major requirements in the Degree Audit should be directed to the department; and,
6. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Graduating students will:

1. Do all of the following steps during the term prior to your term of graduation:
2. Review the COS graduation instructions available at <http://undergrad.cos.ucf.edu> (click on graduation tab);
3. Schedule and attend a graduation review appointment with a COSAS advisor; and,
4. Complete the on-line graduation application on myUCF within the dates specified at <http://www.registrar.sdes.ucf.edu/calendar/>.

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 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;

Academic Advising

2. See a program advisor prior to registration to select courses and to make sure you are on track for graduation;
3. View a Degree Audit through myUCF and contact a program advisor in the Office of Student Services regarding questions or concerns; and,
4. File an "Intent to Graduate" online through myUCF by the end of the term prior to the term in which you plan to graduate.

Office of Undergraduate Studies 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 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 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" online through myUCF 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.

Regional Campus System

New transfer students are given the opportunity to meet with a Professional or Faculty Advisor prior to applying to UCF and at any time while enrolled to discuss programs and requirements. Students are asked to meet in a pre-advising session prior to Orientation to determine if the student is a Regional Campus or Orlando Campus student. Orlando Campus students are asked to attend Orientation on the Orlando Campus with the College of their choice. Regional Campus students are required to attend Orientation on the Regional Campuses they plan to attend. The student will receive:

1. Information about the degree programs offered at the Regional Campus;
2. An understanding of the career options associated with their major program of study; and,
3. An appropriate program of study along with the first term class schedule.

Regional Campus students have several opportunities to obtain academic advising which begins as co-advising with the Community College in the DirectConnect to UCF program and continues with the Professional Advisors available at the Regional Campuses. Current students will continue to receive advising on the Regional Campus of their choice for the programs that are available on that campus. 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 the *Undergraduate Catalog*.

Orlando Campus students may receive supplemental advising on the Regional Campus, in partnership with the College of the major on the Orlando Campus; this will aid the student in taking courses that are offered at the Regional Campus if they are a part of the students' degree program.



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 requirements.

Students transferring with an A.S. in one of the statewide 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 Transfer and Transition Services, located in Howard Phillips Hall, room 221. Call the Student HOTLINE at 407-823-5959 for immediate access to staff during regular business hours. Visit the Web site at <http://transfer.sdes.ucf.edu>.

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:
- General advising for transfer students before and after they enroll at UCF
- Pre-admission academic advising for students applying to UCF
- Advising for students who are undeclared, undecided, or changing majors
- Peer Mentors provide advising and transition assistance by telephone, e-mail, and office appointments
- Student information and advising HOTLINE 407-823-5959
- Web site for transfer students (<http://transfer.sdes.ucf.edu>)
- Transfer Knights social club; Tau Sigma Transfer Honor Society
- Orientation advising and assistance
- Written articulation agreements between UCF and other universities and colleges

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.

DirectConnect to UCF provides A.A. and A.S. students and alumni of Brevard Community College, Lake-Sumter Community College, Seminole Community College, and Valencia Community College guaranteed access to UCF. Meet with a DirectConnect advisor as soon as you earn 30 credit hours.

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

Transfer and Transition Services

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.

What If I Have Not Taken the CLAST?

Students may be admitted without completing the College Level Academic Skills Test. 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 University Testing Center, 407-823-5109.

What Are the Foreign Language Requirements?

Admission Requirement: To be admitted 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.

Graduation Requirement: 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 Degree Audit, which applies earned credits toward your intended 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.

Common Program Prerequisites: To view generic course substitutions for Common Program Prerequisites that may be offered at the community colleges or other state universities, please go to: <http://www.facts.org> > College Students > Transferring > Common

Transfer Checklist

Before Completing the A.A. or Articulated A.S. Y___ N___ met with a DirectConnect advisor Y___ N___ met with counselor or advisor for graduation check Y___ N___ completed application for graduation	Immunization ___/___/___ date Student Health Form submitted Y___ N___ need immunizations
Application for Admission ___/___/___ date submitted Y___ N___ checked admission status at https://my.UCF.edu ___/___/___ date of acceptance	Foreign Language Requirements (Admission) Y___ N___ 2 years/units earned in high school Y___ N___ 8-10 credits earned at the college level Y___ N___ credits to be taken at the university
Transcripts (original transcript from all institutions attended) Y___ N___ transcripts sent from all current and prior institutions Y___ N___ date final transcript sent after term completed	Note: Although American Sign Language may be used to satisfy the UCF admission requirement, it may not satisfy graduation requirements of the specific major.
Financial Aid/Scholarship ___/___/___ date financial aid application (FAFSA) sent ___/___/___ date SCHOLARSHIP application sent Y___ N___ "to do" list checked on myUCF	Program (Major) Requirements Y___ N___ selected a major Y___ N___ completed major prerequisites Y___ N___ submitted limited access application Y___ N___ met grade point average (GPA) requirements Y___ N___ met cumulative GPA for admission to program of study Y___ N___ met cumulative GPA in courses taken for program of study Y___ N___ met grade requirements for designated courses Y___ N___ met audition/portfolio/additional admission requirements Y___ N___ completed CLAST exam or alternatives
Housing Y___ N___ reviewed OCSS handbook: <i>Survival Guide for Living off Campus</i> ___/___/___ date application sent (include deposit when required)	Orientation: ___/___/___ Orientation date at UCF

Prerequisite Manual. Usually these courses will be substituted automatically in your audit to fulfill the correct requirement.

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. Courses not automatically credited to your degree program must be evaluated on a course by course basis. General education courses are evaluated through Academic Services; all other courses are evaluated by the academic department offering the courses.

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 Fee 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 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 correspondence 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 (in groups) and then allowed to register. Tuition and fee payments are due by the published deadline.
- Complete the "Student Health Form." Registration is not 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, state 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 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://www.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 alternate course in the same discipline may be substituted for GEP requirements. These alternate courses, approved by the Faculty Senate Undergraduate Common Program Oversight Committee, are listed in the section identified as "Alternate Courses: General Education Program." Students should consult with an advisor before enrolling in an alternate 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 1608 | Fundamentals of Oral Communication..... | 3(3,0) |
| SPC 1603 | Fundamentals of Technical Presentation..... | 3(3,0) |
| COM 1000 | Introduction to 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 | Introduction to Psychological Science..... | 3(3,0) |
| SYG 2000 | Introduction to 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 2008

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.

Substitution of Courses: General Education Program and Other Requirements

The student degree audit system 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 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 1140, MAC 2233, MAC 2253, 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 2500C, COP 3502C, COT 3100C
STA 2014C (Statistics)	STA 2023, STA 3032
THE 2000 (Theatre)	THE 2020
FIL 1000 (Cinema Survey)	FIL 2030, FIL 3036, FIL 3037
MUL 2010 (Enjoyment of Music) ¹ MUL 2016, MUL 2720	MUH 2017, MUH 2019, MUH 3212,

¹For all of the acceptable substitutions in this GEP requirement, a grade of "C-" (1.75) 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.

Undergraduate Degree Requirements

Education Courses:

ENC 1102	Composition II
SPC 1608	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 4129	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 2085	Teaching Diverse Populations
GEO 3471	World Political Geography
JST 3401	History of the Jewish People I
JST3402	History of the Jewish People II
LIN 4643	Cross Cultural Communication
LIN 4XXX	African-American Styles of Communication
AML 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
POS4622	Politics and Civil Rights
PUP 3314	Minority Politics
PUP 4204	Sustainability
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 completed appropriate advanced foreign language education abroad will be considered to have satisfied the requirement.

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 1121C (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 ASL 4161C (previously numbered 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>.

Undergraduate Degree Requirements

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 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.clastwaiver.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 must complete the "Intent to Graduate" online at <https://my.ucf.edu> in the term preceding the one in which they intend to graduate (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://www.registrar.sdes.ucf.edu/commencement>.

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.

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. Web site: <http://www.doce.ufl.edu>.

Double Majors

- A student may earn one degree, a BA or BS, with two majors, by completing the requirements for both majors. One diploma will be awarded with both majors indicated. Students earning a double major must use the same Catalog year for both majors.

Two Degrees

- A student may earn two degrees, a BA and a BS, by completing the requirements for both majors and earning a minimum of 150 credit hours.
- A student may earn two degrees, either both BA or both BS, if the degrees are earned in separate colleges and a minimum of 150 (or more) credit hours are earned.
- A student may earn two degrees, either both BA or both BS, within the same college if allowed by the particular college and a minimum of 150 (or more) credit hours are earned. The university Catalog will stipulate combinations of degrees within colleges that are not allowed.
- Students earning two degrees may use different Catalog years for each degree. If different Catalog years are used, the general university requirements in the latest of the two catalogs will be applied to both degrees.

More Than Two Majors, or More Than Two Degrees, or a Combination

Students attempting multiple majors or degrees beyond two must consult with the Registrar's Office for coordination among degree programs. Responsibility for doing so rests with the student. The stipulations for two majors and/or two degrees will apply as well as other minimum amount of hours and prohibitions about combinations.

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 of 30 additional credit hours 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 as stipulated in the UCF Catalog.

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.

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.ucf.edu/calendar/academic/>.

Web Enrollment Guide

The *Web Enrollment Guide* is maintained online. It provides the official "Academic Calendar" and describes the policies and procedures governing registration each term. The *Guide* is available on the Registrar's Office web page at <http://www.registrar.ucf.edu/weg/>.

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 online *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 semesters. 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. 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 a release for financial Holds, payment to the Cashier's Office must be made either in cash, credit card, cashier's check, or money order.

Drop/Swap and Add Policy

Drop/Swap and Add are the periods following initial registration when students may make class schedule adjustments (as listed in the "Academic Calendar"). Drop/Swap and Add may be done using the myUCF system (<https://my.ucf.edu>) or in the college advising offices. After the Add period, no course may be added or dropped without being fee liable. Courses meeting for the first time after the end of the Drop/Swap and Add period may be dropped the next business day in the Registrar's Office, MH 161. If a student drops courses for an entire term with the intent of not returning to UCF, they must also drop courses for any future terms or will be fee liable. For Withdrawal after the Drop/Swap period, refer to the "Withdrawal Policy" of the *Undergraduate Catalog*. Please note that, beginning May 2009, the deadline to drop classes without fee liability and a W grade is one day earlier than the last day to add classes. Please consult the Academic Calendar for Drop, Add, and Withdrawal deadlines.

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 the *Undergraduate Catalog*. Audit registration is on a space-available basis at the prescribed time of Registration, or at any time during Late Registration and Drop/Swap and Add 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, but must remain in the course or withdraw through normal withdrawal procedures. New students must be accepted for admission to be eligible to audit a course. Audit forms, available on the Registrar's Web site (<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/academic/>. Direct student expenses after the completion of registration include the campus ID card, vehicle registration and textbooks.

State of Florida Employee & UCF Employee Employee Registration

State of Florida employee and 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/academic/>. For waiver eligibility and application information, see "Tuition Waivers" within "Financial Information" of the *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 online at <http://www.facts.org>. No application fee is required. The "SUS Transient Application Form" must be completed each term and should be completed online or delivered/mailed to the Registrar's Office (MH 161), by the application deadline noted in the "Academic Calendar" online at <http://www.registrar.ucf.edu/calendar/academic/>. Students should visit the Registrar's Office Web site at <http://www.registrar.ucf.edu> or contact the Registrar's Office for registration information at 407-823-3100.

UCF Students Attending Another Florida Public Institution

UCF students who desire to attend another Florida Public institution as a Transient Student are encouraged to complete the "Transient Student Form" online, which is available on the FACTS Web site at <http://www.facts.org> under "College Students" > "Transferring".

Academic Regulations and Procedures

Students wanting to attend a Florida private institution or an institution outside the State of Florida may obtain a printed form from the UCF Registrar's Office. 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 Verifications

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 <http://www.degreeverify.org>. A fee will be assessed for all such requests. UCF has contracted with National Student Clearinghouse to provide current enrollment and degree verifications online 24 hours a day, seven days a week. National Student Clearinghouse Customer Service is available at 1-703-742-4200, Monday - Thursday, 9:00 a.m. - 7:00 p.m., & Friday, 9:00 a.m. - 5:00 p.m., ET.

Withdrawal Policy

Withdrawal for each term begins after the Late Registration and Drop/Swap period 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/academic>. 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) from which to be withdrawn and his or her signature. Students may 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 postmarked before the published withdrawal deadline and must include the student's identification number, the course(s) from which to be withdrawn 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 term with the intent of not returning to UCF, they must also drop courses for any future terms or be fee liable.

A student is not automatically withdrawn from a class for not attending, nor can an instructor withdraw a student from a class.

No withdrawal is permitted after the deadline except in extraordinary circumstances. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Students seeking to petition for a late withdrawal should consult the Academic Services Web site at http://www.academicsservices.ucf.edu/academic_record/ and 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, and the late withdrawal is granted, a "WP" will be recorded on the student's permanent record; if failing, and a late withdrawal is granted, a "WF" will be entered. Medical and late withdrawals normally are for all courses taken in the term.

Students who seek late withdrawal because they are ill must apply for the withdrawal within six months of the end 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 (MH 210). A medical withdrawal must be for all classes in the term. Medical withdrawals can only be approved in cases where the student is unable to finish 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 term, but will use that time to address the medical condition that necessitated the withdrawal. It is the student's responsibility to drop all courses for any future term or be fee liable. 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 the Late Registration and Drop/Swap period 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 documented 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) 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 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 Office of Student Rights and Responsibilities 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 1140, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014C. In these classes NC replaces the use of D+, D and D-.

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	-
T	(Research, Thesis, or Dissertation) (followed by grade) Subsequently repeated (no credit)	-
U	Unsatisfactory (no credit)	-
W	Withdrawn	-
WF	Withdrawn Failing	0.00
WH	Health Form Withdrawal	-
WM	Medical Withdrawal	-
WP	Withdrawn Passing	-
X	Audit (no credit)	-

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.

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.** GPA is recalculated after each term; for Summer GPA is recalculated only after all Sessions and end of term. 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 $(162 + 46) / (54 + 13) = 3.10$.

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. When an instructor assigns an "I" grade for a course, the student is notified through e-mail about the grade. 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 term 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. GPA is recalculated after the grade change. Grade changes other than medical withdrawals will be considered only during the term 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 whenever 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 142; 407-823-6960) or, for athletic events only, Academic Services for Student-Athletes, Wayne Densch Center 1, 103A; 407-823-5896.

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 142) 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 practice 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 must notify all of his/her instructors **at the beginning of the term** to 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 term) 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 stu-

dents 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; and,
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 six to ten weeks after Commencement to the address indicated in the online "Intent to Graduate."

Honors in the Major

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

Grade Forgiveness

Grade Forgiveness offers a student the opportunity to retake a course and earn a second grade that will be substituted for the previous grade. You may apply for Grade Forgiveness online at <https://my.ucf.edu> > Student Self Service > Student Center. Requests must be submitted no later than the **withdrawal deadline** for the term/session in which the student has registered for the course being repeated. Consult the web calendar at <http://www.registrar.ucf.edu/calendar/academic/>. 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 **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. In this case, the student must submit the paper version of the Grade Forgiveness Form which can be obtained at the Registrar's Office (MH 161).

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 may 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 required to have completed the Florida AA degree, or have completed UCF's general education program, CLAST, and Gordon Rule requirements, 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. A disqualified student is limited to petition for readmission once per year (365 days). 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**. An individual who has been Excluded will not be considered for readmission, and may not appeal any failure to be readmitted following Exclusion.

Earning Credit While Disqualified

A student disqualified 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 1**; for Fall, **July 1**; and for Spring, **November 1**.

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 online at <http://www.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 "Financial Information" of the *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 term 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 grade point

Academic Regulations and Procedures

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. Until removed from probationary status following readmission, a student will not be allowed to change majors unless prior approval is authorized by all departments/schools/colleges offering the student's current field of study and the field of study to which the student is seeking the change; 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 has thirty (30) days from the date of the denial to 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)

Students who are disqualified (with a grade point deficiency of 15 grade points or more) **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 has thirty (30) days from the date of the denial to 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. A student must remain on readmission plan until removed from probationary status following readmission, a student will not be allowed to change majors unless prior approval is authorized by all departments/schools/colleges offering the student's current field of study and the field of study to which the student is seeking the change.

Dropping or Withdrawing During Readmitted Term

Disqualified or excluded students who drop or withdraw from all courses during the readmitted term 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 not eligible to appeal for an exception to University policy to the Admissions and Standards Committee.

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. All decisions rendered by the Admissions and Standards Committee are final. Decisions can only be appealed in the event new evidence or information has been determined by the Chair of the committee to be relevant and is subsequently approved for further committee review.

Right of Appeal

A student who is ineligible for readmission or has been denied readmission has thirty (30) days from the date of the denial to appeal for an exception to University policy to the Admission 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 type page; it must be signed and dated, and include the student's UCF Personal Identification number (PID).
 - b. An "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 (**\$10 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. 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. Decisions can only be appealed in the event new evidence or information has been determined by the Chair of the committee to be relevant and is subsequently approved for further committee review.

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 terms 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;
 - c. Any additional requirements mandated by the college advising office (i.e., academic advising or mentoring, required tutoring or academic support services, etc.); and,
 - 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 12 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 initially obtained from the "Application for Admission or Readmission." It is the students' responsibility to make appropriate changes to the address online at myUCF **as they occur**. 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, by fax, or online in myUCF (<https://my.ucf.edu>)). "Transcript Request Forms" are also available on the Registrar's Office Web site at http://www.registrar.ucf.edu/forms/transcript_request/. A student's academic record can be released **only** upon written authorization signed by the student. **Telephone and e-mail requests are not accepted.** Transcripts **cannot** be released if the student is on Hold due to a financial obligation to the University. Transcript requests must include the student's signature, full name, identification number, and the name and complete address of the person(s) or organizations to whom transcripts are to be sent. If final grades or degree statement are needed, indicate that the transcript request is to be held until all requested data are posted.

A \$10 per transcript charge is assessed for each transcript request. Payment for official transcripts is required at the time of 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/forms/transcript_request/ or call 407-823-3100. 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 \$10.00 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 term 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.

Academic Regulations and Procedures

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.

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 of from the Registrar's Office Web site 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 online submission of the online "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 *Undergraduate 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 may be 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, National Student Clearinghouse, 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." Students can do this online at myUCF or complete the "Directory Disclosure/Release Authorization" form available at the Registrar's Office (MH 161) or 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 Web site 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 Educational 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 acceler-

ated Undergraduate - Graduate Programs linking the bachelors and Master's degree listed in the *Undergraduate Catalog*.

Test credit is applied according to the published policy at the time the credit is received and posted by the University.

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 sub-test 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 semester (min. 3 credits) should be awarded for a score of 3 or higher.

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.

Academic Regulations And Procedures

AP Latin: Vergil LNW 2321
AP Latin: Latin Literature LNW 3700 (number unique to exam)

International Baccalaureate Program (see table below)

Students who have participated in the International Baccalaureate 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 (all modern languages)

International Baccalaureate offers examinations in many languages and literatures at different levels: B, A2, and A1. Most students in 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 examina-

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 1121C 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 1121C 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 1120C		Score of 62 or higher earns FRE 1120C and 1121C
German Language	GER 1120C		Score of 63 or higher earns GER 1120C and 1121C
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 1120C		Score of 63 or higher earns SPN 1120C and 1121C
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	

tions. 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 1121C) 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 1121C/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 examination area; and e) does not complete nor receive credit by UCF (transfer or otherwise) in a more advanced course during the term 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

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	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 1121C	
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)	SYG 2000	
Sociology (A-Level)	SPN 1121	SOC Found 2
Spanish Language (AS-Level)	SPN 2230 and SPN 2231	
Spanish (A-Level)	PHI 1103	
Thinking Skills (AS-Level)	PHI 1103 and 1906	
Thinking Skills (A-Level)	HFT 1000	
Travel and Tourism (AS-Level)	HFT 1000 and 1906	
Travel and Tourism (A-Level)		

*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

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 (4 credits) of Elementary Language I or equivalent level (generally numbered 1120). A score at or above the second CLEP threshold level (currently 59 for French, 60 for German, or 63 for Spanish) earns a minimum of two semesters (8 credits) of Elementary Language I and II or equivalent level (generally numbered 1120C-1121C). 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	QMB 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		45
Microbiology	MCB 1000		45
Psychology of Adulthood and Aging	DEP 1401		45

SPECIAL ACADEMIC PROGRAMS AND RESEARCH INSTITUTES

International Studies

Director: Angel Cardec; Research Pavilion, Suite 395,
P.O. Box 163105, Orlando, FL 32816-3105; 407-882-2300;
Fax: 407-882-0240;
<http://www.international.ucf.edu>.

The Office of International Studies (OIS) connects UCF students and faculty to diverse world communities. Its 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: development and administration of UCF study abroad programs; faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

Study Abroad Programs

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

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 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 OIS, and are designed to provide an exceptional learning experience, while matching the specific needs and circumstances 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 past short term programs include the following: intensive language programs in France, Japan, Germany, Spain and Italy; Tropical Marine Biology in Honduras; International Business in France and Spain; Criminal Justice in Costa Rica and Russia; Education in the United Kingdom; International Gastronomy in France and Italy; and Art in Scotland.

Reciprocal Student Exchanges (RSE) provide the opportunity to become a student at a university abroad for one term 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. Past RSE include the following: Universit'e d'Angers, ICN School of Business and Paris VI in France; Meikai University in Japan; University of Lima in Peru; Jonkoping and Malardalen universities in Sweden; and Northampton University and University of Surrey in the United Kingdom.

There are many more study abroad options. It is important that interested participants 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.studyabroad.ucf.edu> or contact OIS at 407-882-2300.



Experiential Learning, Undergraduate Studies

Director: Sheri Dressler; Ferrell Commons, Suite 203;
(407) 823-2667
<http://www.explearning.ucf.edu/>

Experiential Learning provides instruction and instructional support for applied learning courses at UCF. Its mission is to 1) encourage all UCF students to include some form of experiential learning in their academic programs before graduation; 2) instruct cooperative education (co-op) and internship courses and support faculty in other academic departments to create and instruct internship and service-learning courses; 3) promote the measurement of student learning outcomes across disciplines for students in applied learning courses; 4) provide faculty training and quality assurance processes for the creation and instruction of high quality experiential learning courses; 5) create meaningful and productive educational partnerships with employers and community partners locally, nationally, and internationally; and 6) collaborate closely with other UCF departments, such as Career Services, Financial Aid, International Services Center and the Faculty Center for Teaching and Learning.

Experiential Learning at UCF has received national recognition for its institutional support, program innovation, quality instruction and broad-based collaboration. It provides a menu of applied learning options to undergraduate and graduate students in all Colleges, resulting in a third of the student body participating in experiential learning experiences each year. Students are encouraged to come to the Experiential Learning office as early as possible to receive advising and assistance to obtain opportunities and include these courses in their academic programs.

The Experiential Learning department instructs co-op and internship courses and facilitates and supports department faculty in the

development and instruction 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. Additionally, it supports ArtsBridge, a program in which Art, Music and Theatre majors teach course content through the arts in local schools. All of these options provide major-related, real-world experience that helps students clarify career goals, apply classroom theory, and gain the personal, academic and professional competencies that they need to be work-ready and engaged community members upon graduation.

- Internships are available to students on all campuses in all Colleges. They are courses that provide one-term of major or career-related work experience, structured for learning with reflection, supervision and evaluation, paid or unpaid, and most often for credit. Internships usually occur toward the end of a student's program of study and can be part-time (usually during the school year) or full-time (usually during summers). They are available through the Experiential Learning department or through other academic departments in Colleges. Contact information for department internship coordinators is on the Experiential Learning Web site.
- Co-op opportunities are available to students on all campuses in all Colleges. They are courses that provide a series of progressively responsible internships, always major- or career-related, paid, and multiple terms with progressively responsible duties. They are either part-time around class schedules (parallel) or full-time alternating terms (alternating), structured for learning with reflection, supervision and evaluation, and available for non-credit or credit when it will count in a student's academic program.

Special Academic Programs and Research Institutes

- 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 learning 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 the Experiential Learning Web site. To participate in co-op or internships, students may complete an application online any time during the year, preferably during the term before they want to participate to allow time to obtain an appropriate learning experience. Once students apply online, they meet with Experiential Learning faculty to be referred, obtain opportunities and register for courses.

National Consortium for Academics and Sports (NCAS)

Director: Suzi Katz-Slowinski; BA2 113; 407-823-5243
<http://www.ncasports.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 available in the areas of diversity training, gender violence prevention, media awareness and building well rounded student-athletes who represent themselves and their University well 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 Web site at <http://www.ncasports.org>.

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.

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 Biomolecular Science Center is housed in the Burnett School of Biomedical Sciences, College of Medicine. 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 research at the Center is focused in four areas: cancer, cardiovascular disease, infectious disease, and neurodegenerative disease. See Burnett School of Biomedical Sciences, College of Medicine section or visit <http://www.biomed.ucf.edu> for more information.

Center for Applied Human Factors in Aviation (CAHFA)

Director and Chief Scientist: Mustapha Mouloua; PSY 303A; 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;
Associate Director: Robertico Croes; 9907 Universal Blvd., Suite 219-C, Orlando, FL 32819, 407-903-8028;
E-mail: DPI@mail.ucf.edu

The purpose of the Dick Pope Sr. Institute for Tourism Studies is to improve the quality of the tourism product while increasing the benefits of tourism for the industry, state of Florida, and local communities. The Institute involves itself in a variety of research projects and educational programs.

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, economics, 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 other 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 on state and international levels, as well as its contribution to the social and economic welfare of the community at large.

Executive Development Center

Executive Director: Bob Case, 407-235-3904;
Associate Director: Jaime Patterson, 407-235-3912; 407-235-3901;
E-mail: edc@bus.ucf.edu

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
- Professional Masters Programs

- 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 the programs to be contemporary, challenging, and effective.

Florida-Canada Linkage Institute

Director: Angel Cardec; 407-882-2300; Fax: 407-882-0240;
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, administered by 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

Director: Angel Cardec; 407-882-2300; Fax: 407-882-0240;
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, administered by 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 John Scott Dailey Florida Institute of Government is part of the College of Health and Public Affairs and serves as a valuable resource for local government information and provides the public sector and non-profit entities the highest quality training, technical assistance, facilitation services, conference planning and coordination, and, administrative services to improve Florida's communities.

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); Army Simulation Training Technology Center; 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:

- Multi-resolution simulation
- Virtual, mixed, and augmented reality
- High performance computing
- Human-machine interface, robotics
- Computer-generated forces
- Mathematical foundations
- Application development
- Information management technology
- Human factors psychology and team training
- Cognitive science/augmented cognition
- Media convergence
- Embedded simulation
- Advanced performance technology

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 other 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.

Special Academic Programs and Research Institutes

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: David M. Nickerson; CC2 206; 407-823-5528;
E-mail: nickersn@mail.ucf.edu

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://statistics.cos.ucf.edu/>. The consulting service is available to faculty members working on funded projects for a modest fee. Professor David M. Nickerson 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: Dan Jones; CNH 303B; 407-823-5160

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)

Regional 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:

College of Arts and Humanities

Bachelor of Arts (B.A.)

Majors: Art, Digital Media, English, Film, Modern Language 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: 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, 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 Track, Health Services Administration, Legal Studies, Public Administration, Radiologic Sciences

Bachelor of Social Work (B.S.W.)

Major: Social Work

College of Medicine

Burnett School of Biomedical Sciences

Bachelor of Science (B.S.)

Majors:

Molecular Biology and Microbiology, Biotechnology, Medical Laboratory Sciences

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, International and Global Studies, 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)

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	College Awarding Minor	Name of Minor
College of Arts and Humanities	African American Studies, American Studies, Art History, Art - Studio, Asian Studies, Cognitive Sciences, Community Arts - PAVE, Dance, Digital Media, English - Creative Writing, English - Linguistics, English - Literature, English - Technical Communication, English - Writing, Film - Cinema Studies, French, German, History, Humanities, Italian, Judaic Studies, Latin American Area Studies, Medieval and Renaissance Studies, Middle Eastern Studies, Music, Philosophy, Philosophy, Religion and Popular Culture, Religious Studies, Spanish, Theatre, Women's Studies	College of Sciences	Anthropology, Anthropology in Multicultural Studies, Astronomy, Biology, Chemistry, European Studies, International and Global Studies, Interpersonal/Organizational 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 Undergraduate Studies	Environmental Studies, Leadership Studies, World Comparative Studies
College of Business Administration	Accounting, Business, Economics, Entrepreneurship, Finance, International Business, Management Information Systems, Marketing, Operations Management/Enterprise Systems, Real Estate, Sport Business Management, Technological Entrepreneurship	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." However, students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.	
College of Education	Coaching, Early Childhood Education, Education, English Language Arts Education, Exceptional Education, Fitness Training, Mathematics Education, Recreation, Science Education, Social Science Education, Technical Education and Industry Training	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 <i>Graduate Catalog</i> ; http://www.graduate.ucf.edu/catalog/ .	
College of Engineering and Computer Science	Aerospace Studies, Bioengineering, Computer Science, Energy and Sustainability, Engineering Leadership, Information Technology, Intelligent Robotic Systems, Interdisciplinary Informatics Technology, International Engineering, Military Science, Secure Computing and Networks		
College of Health and Public Affairs	Aging Studies, 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, Nonprofit Management/ American Humanics National Certification Program, Public Administration, Urban and Regional Planning		
College of Medicine Burnett School of Biomedical Sciences	Molecular Biology and Microbiology		

THE BURNETT HONORS COLLEGE



The Burnett Honors College

Dean: Alvin Wang;
407-823-2076, Fax 407-823-6583
<http://www.honors.ucf.edu>

Assistant Dean: Martin Dupuis
Director of Administrative Services: Donna Plaisted
Director of Advising: Rex Roberts
Director of Information Systems: Andrew Holloway
Director of Research and Civic Engagement: Kelly Astro
Director of Student Affairs: Jill Norburn
Director of Student Development: Nicole Gelfert
Director of Student Services: Madi Dogariu

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 pursue 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.

The Burnett Honors College

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
IDH 1920H	4 courses	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, Information Systems Technology, Economics (B.A.) and Interdisciplinary Studies majors

1. Complete one Honors Interdisciplinary Seminar³
2. Complete two Honors upper-division courses or Interdisciplinary Seminars³

■ University Honors Upper-Division Program Requirements: College of Business Administration (excluding Economics (B.A.))

1. Complete one Honors Interdisciplinary Seminar³
2. Complete two Honors upper-division Business courses
 - BUL 3130H Honors Legal and Ethical Envir^t of Business
 - GEB 3356H Honors Introduction to International Business
 - MAR 3023H Honors Marketing
 - FIN 3403H Honors Business Finance
 - MAN 3025H Honors Management of Organizations

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, Information Systems 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)
2. Complete two Honors upper-division Engineering courses
 - STA 3032H Probability and Statistics for Engineers
 - EGN 3310H Engineering Analysis-Statics
 - EGN 3321H Engineering Analysis-Dynamics
 - EGN 3373H Principles of Electrical Engineering
 - EEL 4818H Machine Learning I
 - EEL 4817H Machine Learning II
3. Complete the Honors Engineering Research Seminar
 - 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
2. Complete two Honors upper-division Computer Science courses
 - COP 3502H Computer Science I
 - COP 3503H Computer Science II
 - COT 3100H Introduction to Discrete Structures
 - ENC 3241H Writing for the Technical Professional

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)

1. Complete one Honors Interdisciplinary Seminar³ outside major dept.
2. Complete one Honors Interdisciplinary Seminar³ offered by COHPA
3. Complete an additional Honors Interdisciplinary Seminar³ or three credit hours of independent study

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
2. Complete NUR 3165H Nursing Research
3. Complete one of the following nursing courses
 - NUR 3825H The Role of the Professional Nurse
 - NUR 4837H Health Care Issues, Policy, and Economics
 - NUR 4932H Leadership, Management, and Role Transition
 - NUR 3826H Bioethical and Legal Issues in Healthcare

Consult an Honors advisor to find out when these courses are being offered.

■ University Honors Upper-Division Program Requirements: College of Medicine excluding Medical Laboratory Sciences majors

1. Complete one Honors Interdisciplinary Seminar³ outside the major
2. Complete two of the following Honors upper-division courses
 - BSC 3404H Quantitative Biological Methods
 - MCB 3020H Microbiology
 - ZOO 3733H Human Anatomy
 - PCB 3703H Human Physiology
 - PCB 3733H Molecular Biology II
 - ZOO 4704H Clinical Neuroanatomy

Consult an Honors advisor to find out when these courses are being offered.

¹ ENC 1101 and ENC 1102 must be taken in Honors sections if the student does not have alternative credit for them at the time he/she is admitted in to the University Honors Program. Extra Upper Division course(s) can substitute for Lower Division courses.

² Honors Symposium is a mandatory two credit hour course offered for freshmen in the Fall semester of each year. This course includes guest lectures, video and film presentations, and live performances by guest artists. 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

Please see The Burnett Honors College Web site at: <http://www.honors.ucf.edu> for a listing of acceptable waivers. Students should obtain waivers from the Office of Honors Advising (BHC 107) prior to their participation in the listed programs. Students may only receive one waiver of credit per undergraduate career.

Notes

Students who are pursuing University Honors in two degrees must complete an extra Upper-Division course or Interdisciplinary Seminar.

Honors in the Major (HIM) courses do NOT count for University Honors requirements. However, EGN 4931H and NUR 3165H can count for HIM Directed Readings.

UCF/USF Accelerated Medical School Program for Students of The Burnett Honors College

http://www.honors.ucf.edu/Admissions_UCF-USF.asp

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 Molecular Biology and Microbiology in order to receive a Baccalaureate Degree from UCF.

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 1350 or ACT of 30
- 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/Admissions_UCF-USF_Require.asp

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 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 12 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 third day of classes of the semester of 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, Goldwater, 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.honors.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 award does not require institutional endorsement. Students seeking more information should contact OSSFA by phone at 407-823-2877 or visit BHC 107 prior to the application process.



College of Arts and Humanities

Dean: Jose Fernandez; CAH 190; 407-823-2251;

Associate Dean: Lyman Brodie; CAH 190; 407-823-2251;

Associate Dean: Terry Frederick; CAH 190; 407-823-2251;

Assistant Dean: Lynn Hepner; CAH 190; 407-823-2251;

Assistant Dean: Paul Lartonoix; CAH 190; 407-823-2251

The College of Arts and Humanities includes the following departments: Art, Digital Media, English, Film, Modern Languages & Literatures, History, Music, Philosophy, and Theatre. The College also houses programs in American Studies, Asian Studies, Judaic Studies, Latin American Studies, Caribbean and Latino/a Studies, Women's Studies, and Middle Eastern Studies.

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 online *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; 407-823-3312;

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 six area studies programs with an international focus: African American, American, Asian, Judaic, Latin American, Caribbean and Latino/a 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.

African American Studies - Contact: Dr. JoAnne Stephenson; 407-823-0026

American Studies - Contact: Lyman Brodie; 407-823-2251

Asian Studies - Contact: Paul Giordano; 407-823-2472

Judaic Studies - Contact: Moshe Pelli; 407-823-5039

Latin American, Caribbean and Latino/a Studies - Contact: José Maunéz-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
Art	BA, BFA, Minor, MFA
Asian Studies	Minor
Cinema Studies (Film)	BA, Minor
Community Arts - PAVE	Minor
Dance	Minor
Digital Media	BA, MA, MFA, Certificate, Minor
English	BA, MA, Minor, MFA, Ph.D., Certificate
Film	BFA, MFA
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, MA, Minor
Music Education	BME
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



College of Arts and Humanities

Departments and Programs

African-American Studies: Program

Program Director: JoAnne Stephenson; CNH 411; 407-823-0026
<http://www.aas.cah.ucf.edu>

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: Lyman Brodie; CAH 190; 407-823-2292

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

Department of Art

Chair: TBA; VAB 117; 407-823-2676; E-mail: art@ucf.edu
<http://www.art.cah.ucf.edu>

Faculty: Abbas, Abraham, Ahearn, Burrell, Chavda, Cooper, Francis, Gaudnek, Hall, Haran, Haxton, Isenhour, Kim, Kovach Lotz, Martin, Poindexter, Price, Reedy, Rivers, Robinson, Spencer, 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

Asian Studies: Program

Contact: Paul Giordano; CNH 523; 407-823-2472

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

Community Arts—PAVE: Program

Program Director: Janet Kilbride; 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 Digital Media

Interim Chair: José Maunez-Cuadra; OTC5 500; 407-823-6100;
E-mail: digitalmedia@dm.ucf.edu
<http://www.dm.cah.ucf.edu>

Faculty: Croft, Frederick, Friskics, Hadrika, Hughes, Kenny, Maunez-Caudra, McDaniel, Moshell, Peters, Smith, Story, Sung, Theen, Underberg, Wirth

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, MA, MFA)

Tracks: Digital Interactive Systems and Visual Language

Minors: Minor

Department of English

Chair: David Wallace; CNH 405; 407-823-1159;
E-mail: english@ucf.edu
<http://www.english.cah.ucf.edu>

Faculty: Angley, Applen, Barnes, Bartkevicius, Bell, Bowdon, Brain, Brodtkin, Campbell, Casmier-Paz, Cato, Dombrowski, Ethridge, Flammia, Gomrad, Grajeda, Hasanat, Hemschemeyer, Hepner, Hohenleitner, Hubbard, Jensen, A. Jones, D. Jones, Kamrath, Kesler, Kyle, Lillios, Logan, Marinara, Mauer, Meehan, Mohrenne, Morton, Murphy, Neal, Oliver, Owens, Pugh, Rodriguez-Milanes, Roney, Rushin, Saper, Schell, Schutz, Scott, Seidel, Spraker, Stap, Telep, Thaxton, Trouard, Wallace, Wardle, 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 communication, 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 Communication

Minors: Creative Writing, Literature, Linguistics, Medieval/
Renaissance, Technical Communication, Writing

Department of Film

Interim Chair: Steve Schlow; COM 121; 407-823-0694;
E-mail: film@ucf.edu
<http://www.film.cah.ucf.edu>

Faculty: Cook, Finch, Gerstein, Harris, Ingle, Johnson, Jones, Mills, Rohdie, Sandler, Schlow, Stoeckl, Wolfe

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 Web site. Because this is a limited access program, students should pay close attention to the program admission requirements and check with the Department or Web site frequently.

Degrees: Film (BFA, MFA) Cinema Studies (BA)
Minors: Film-Cinema Studies (BA)

Department of History

Chair: Rosalind Beiler; CNH 505A; 407-823-5450;
E-mail: history@ucf.edu
http://www.history.cah.ucf.edu

Faculty: M. Adams, Beiler, Cassanello, Clark, Crepeau, Dandrow, Darty, Downing, Farless, Fernandez, Foster, Garcia, Gordon, Greenhaw, Herlihy, Kallina, Larson, Lester, Long, Lyons, Martinez-Fernandez, O'Shea, Ozoglu, Sacher, 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.judaicstudies.cah.ucf.edu

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 rabbinate, 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
http://www.lacls.cah.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
http://www.middleeasternstudies.cah.ucf.edu

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.mll.cah.ucf.edu

Faculty: Barone, Cordeiro-Rosa, Decker, Fabery, Fanai, Folse, Garcia, Giordano, Korosy, Leticee, Lopez, Ludwig, Mihai, Montalvo, Nalbone, Negy, Pomerleau, Prucha, Purmensky, Redmon, Rivera, Solis, Spina, Stebbins, Tartt, Thompson, Trinquet, Villanueva-Ghelfa, Vitanova; Professor Emeriti: Barsch, Del-Rio, Micarelli

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: TBA; CNH 205; 407-823-2879; Fax 407-823-3378;
E-mail: music@ucf.edu
http://www.music.cah.ucf.edu

Faculty: Almeida, Batzner, Boukobza, Brodie, Brunner, Danielson, Garcia, Gay, Greenwood, Holcomb, Hunt, Koons, Macklem, Marosi, Montague, Moore, Pherigo, 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

College of Arts and Humanities

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, MA),
Music Education
(BME),
Music Performance
(BM)

Tracks: Music Performance,
Composition

Minors: Music

Department of Philosophy

Chair: Bruce Janz; Psychology
Bldg. 220; 407-823-4416;
E-mail: philosophy@ucf.edu
<http://www.philosophy.cah.ucf.edu>

Faculty: Burris, Cash, Compson, Congdon, Coverston, DiBernardo, Evans, Fiore, Hawkins, Janz, Jones, Kassim, Mundale, Park, Schippert, Stanlick, Strawser, Vest; *Professor Emeritus:* Flick

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: Steven Chicurel; UTC 111; 407-823-2862;
E-mail: theatre@ucf.edu
<http://www.theatre.cah.ucf.edu>

Faculty: Alrutz, Boyd, Brotherton, Brown, Chicurel, Harris, Helsinger, Huaixiang, Ingram, Lartonoix, Lee, Listengarten, McDonald, Niess, Rusnock, Scott, Seay, Shafer, Siegfried, St. Claire, Stribling, Tollefson, Vernon, Weaver, Wood, Wootton, Wuehrmann; *Professor Emeritus:* Smith

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: TBA; CNH 411; 407-823-6502;
E-mail: womenst@ucf.edu
<http://www.womensstudies.cah.ucf.edu>

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

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Arts and Humanities are located at: http://www.oas.ucf.edu/alc/alc_students_cahum.htm

COLLEGE OF BUSINESS ADMINISTRATION



College of Business Administration

Dean: Thomas L. Keon; BA 230; 407-823-2181

Associate Dean: E. Taylor Ellis; BA2 101-W; 407-823-2187

Associate Dean: Jaishankar Ganesh; BA 230L; 407-823-5094

Interim Associate Dean: Foard Jones; BA 307

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 encouraged 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. **For the BSBA and BABA degrees**, 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 **for BSBA and BABA** students **when** the following are complete:

- Completion of the University General Education program or an AA degree from a Florida Public Community College, and a minimum GPA of 2.0.
- Common Program Prerequisites with a minimum of a 2.0 GPA and "C" or better in each class.
- Completion of all Gordon Rule requirements.

College of Business Administration

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. Faculty, working with representatives from the business community, help you develop these competencies as you work through the following required courses in the Business Core:

GEB 3031	Cornerstone
GEB 3356	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: Randall Brumfield; 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 BAII 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
Real Estate	BSBA

Departments and Programs

Kennth 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: Allen, Arnold, Benfors, Bobek, Dennis, Durham, Dwyer, Goldwater, Hampton, Hornik, Judd, Kelliher, Klintworth, Lacy, Lako, Robb, Roberts, Roush, Smith, Sutton, Veit, 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.

College of Business Administration

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: Braun, Buhagiar, Butterfield, Caputo, Charavorty, Dickie, Euzent, Gerking, Gibbs, Harrison, Hofler, Martin, McHone, Milon, Moore, Pennington, Potter, Rutstrom, Scrogin, Soskin, Underwood, White, Yang
Faculty Advisors: R. Pennington, BA2 303-B, 407-823-2640, E-mail: robertp@mail.ucf.edu; U. Chakravorty, BA2 302S, 407-823-4728; N. Underwood, BA2 302N, 407-823-1403

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.

The Department also offers an accelerated undergraduate/graduate program for highly qualified majors in Economics. The Economics BA/MS program provides a broad liberal arts education and leads to a graduate degree in 5 years.

Distinctive Benefits

- Flexible Curriculum: Students tailor the program to their individual interests through a large selection of tracks and electives.
- Interdisciplinary Linkages: Economics provides a solid foundation to link with many other disciplines allowing for a double major in Finance, Real Estate, Mathematics 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, Anderson, Borde, Botts-Wright, Byrd, Chambliss, Chen, Curcio, Choi, Dalrymple, Frye, Gatchev, Gilkeson, Gregg, Hoffman, Park, Phillips, Ramanlal, Schnitzlein, Singer, Smith, Sweo, Strum, 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: F. Jones; BA 335; 407-823-2679

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, Becker, Blencke, Boettcher, Callarman, Cleavenger, Connell, Daugherty, Folger, C. Ford, R. Ford, Gay, Harris, Holland, Haung, Keon, Kuenzi, Latham, Mayer, McDonald, Migenes, Nichols, O'Neal, Piccolo, Putchinski, Quinn, Rockmore, Salvador, Schminke, Tzabbar, 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 organisations, 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.

College of Business Administration

Degrees: Management (BSBA), Human Resources (MS)

Tracks: General Management, Entrepreneurship,
Human Resource Management

Minor: Entrepreneurship

Department of Management Information Systems

Chair: P. Cheney; BA 325D; 407-823-3106, Fax 407-823-2389

Faculty: Goodman, Hightower, Jiang, Leigh, Parikh, Saunders, Szymanski, 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, Davis, Desiraju, Echambadi, Ganesh, Gundy, He, Howatt, Joshi, Krishnamoorthy, Mao, Massiah, Mayfield-Garcia, Michaels, Rubin, Sooder, Stock, Vanhouche

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.

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Business Administration are located at: http://www.oas.ucf.edu/alc/alc_students_cba.htm

COLLEGE OF EDUCATION



COLLEGES

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/K-12, and exceptional education, technical education and industry training, and sports and fitness professions. The College of Education is dedicated to preparing professional educators as reflective practitioners who meet the needs of our schools and society. UCF's College of Education is the leading 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
 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
- Supporting Teacher Education Pre-Professionals (STEP) Programs
- Teacher Education Assistance for College and Higher Education (TEACH) Grants
- Minority Programs in Education
- 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
- Graduates from state approved initial teacher preparation programs are eligible for professional teacher certification
- Transition to Mathematics and Science Teaching Program (T-MAST)
- Florida Marriage and Family Research Institute

College of Education

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 an 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. It is highly recommended students take and pass the GKT in the Spring Semester of their Sophomore year.
- Complete education common program prerequisite courses with a minimum letter grade of "C-" (1.75) or better and a 2.0 GPA overall in the education common program prerequisite area.

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 an academic advisor in the area of their major upon completion of College of Education admission requirements. The advisor's name and telephone number appear on the Degree Audit and in myUCF 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 academic 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 Degree Audit through myUCF;
3. Register at scheduled appointment time in myUCF. 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 on-line "Intent to Graduate Form" by the end of the term prior to the term in which graduation is intended.

Office of Student Affairs

Executive Director: Tina M. Smilie, ED 110, 407-823-3723
<http://education.ucf.edu/StudentAffairs/>

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), Student Services, and the Academic Advising Center.

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: Bryan Zugelder; ED 110, 407-823-2518
<http://www.education.ucf.edu/clinicalexp/>

Clinical experiences provide students with a broad range of instructional opportunities in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of education programs and consist of early practicum experiences, as well as internships. Placement of students is the responsibility of the College of Education's Office of Clinical Experiences.

Students must be aware: that certain crimes may prevent placement in internship and/or employment in districts. Each school district follows state guidelines for fingerprinting and some districts have additional requirements.

All applications for internships are accessed at the Clinical Experiences Web site and are approved by the Office of Clinical Experiences.

Application deadlines for all Internships are:

February 15 for Fall semester
 September 15 for Spring semester

Internship I

Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers. 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. Internship I experience is completed locally and is arranged by the Office of Clinical Experiences.

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 passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test before applying for Internship I.
- A minimum overall GPA of 2.5 or higher.
- 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.
- The Early Childhood Education program includes a seminar/field experience course in lieu of Internship I.

NOTE: It is highly recommended that students take and pass the FTCE Subject Area Examination before applying for Internship II.

Internship II

Internship II 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. Internship II is a 12 semester hour experience (depending on the program) normally completed during the student's last semester.

Admission to Internship II

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
- It is highly recommended that students take and pass the FTCE Subject Area Exam before applying for Internship II.
- Possess a minimum overall GPA of 2.5 (2.75 required for Early Childhood Education majors).
- Possess minimum professional preparation GPA of 2.5*
- Possess minimum specialization GPA of 2.5*
- Achieve a "C-" (1.75) or better in all professional methods/specialization courses. A minimum overall GPA of 2.5 is required in addition to a minimum 2.5 GPA in the professional preparation and specialization areas. (A minimum of 2.75 GPA is required for Early Childhood Education majors.)

- 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 and is arranged by the Office of Clinical Experiences.

*Some programs may specify a different GPA requirement for admission

Minority Programs in Education (MPIE)

Tina M. Smilie; ED 110; 407-823-0184

<http://education.ucf.edu/mpie/>

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.

Application deadlines:

July 1 for Fall semester

November 15 for Spring semester

Student Services

Director, Graduate Services: Andrea Withington, ED 110; 407-823-3723

Assistant Director, Undergraduate Services: Andrea Small, ED 110, 407-823-3723

<http://education.ucf.edu/student-services/>

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 an 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**



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
- Must be enrolled full-time
- Submit Scholarship Application
- 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

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.

College of Education

Academic Advising Center

Executive Director: Tina M. Smilie; ED 175; 407-823-0043
Undergraduate Coordinator: Jorri Bright; ED 175; 407-823-5369

The College of Education Academic Advising Center provides academic advising assistance for newly admitted elementary education students.

All students are encouraged to meet with an academic advisor each semester for schedule planning and to discuss progress toward degree completion. Academic advising is provided by walk-in, appointment and advising sessions.

Information sessions provide students with additional knowledge concerning their degree programs and responsibilities. The dates, times and locations of information sessions will be posted on the College of Education Web site.

Department of Child, Family, and Community Sciences

Chair: Anne McDonald Culp; ED 209-E; 407-823-1272
Assistant to the Chair: Roanne G. Brice; ED 206-H; 407-823-0664

Faculty: Albers-Biddle, Batchelder, Brasel, Butler, Cross, R. Culp, Daire, Dieker, Duke, Edwards, Englehart, Ezell, Fisher, Hagedorn, Hartle, Hayes, Hines, Hughes-Brand, Hundley, Jennings, Jones, Kazoroski, Kehoe, Kian, Kuminka, Lambie, Lanier, Levin, Little, Martin, Mitchell, Ogilvie, Owen, Platt, Reyes, Robinson, Szente, Taub, Valdes, Van Horn, Vasquez, Wienke, Young

Undergraduate academic major programs leading to bachelor's degrees and certification are offered in Child, Family and Community Sciences. Students are responsible for completion of program requirements and are highly encouraged to review their programs with an assigned advisor.

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 Exceptional Education are qualified to teach K-12 in Exceptional Student Education upon graduation and receipt of a Florida Teaching Certificate.

Several graduate level programs are available in the department:

Counselor Education, <http://www.ucfcounselored.org/Welcomes.html>

Early Childhood Education, <http://education.ucf.edu/ece/>

Exceptional Education, http://www.graduate.ucf.edu/acad_progs/index.cfm?progID=83&scrm=curriculum#EXVMA

School Psychology, <http://schpsy.education.ucf.edu/>

Sports and Fitness, <http://pegasus.cc.ucf.edu/~sportfit/>

See individual program Web sites and the graduate catalog for additional details. You can start by going to the CFCS Web site: <http://education.ucf.edu/cfcs/>

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: Alexander-Snow, Atkinson, Bai, Beverly, Boyd, Bozeman, Cintron, Doherty, Gunter, Hahs-Vaughn, Hirumi, Lee, McGee, Miller, Murray, B., Murray, K., Pawlas, Sivo, Taylor, Witta

The Department of Educational Research, Technology and Leadership (ERTL) is a graduate department with programs in Educational Leadership K-12, Instructional Technology/Media, and Higher Education and Policy Studies. The Educational Research faculty is responsible for training students college-wide in Educational Research, Measurement and Evaluation.

ERTL is guided by the University mission: "achieving international prominence in key graduate education and research programs, developing a global perspective in the curriculum, promoting inclusiveness and diversity, and helping UCF become America's leading partnership university; and by the College of Education's vision of "scholarly leadership in the education profession, well-educated students, rigorous curricula, research and scholarship, promotion of social justice, and service."

Department of Educational Studies

Chair: Karen L. Biraimah; ED 209-B; 407-823-2426
Assistant to the Chair: Brenda Thompson; ED 206-E; 407-823-6579

Faculty: Allen, Becker, Bentley, Boote, Eriksson, Gill, Goodman, Hewitt, Hoffman, Holt, Hopp, Hutchinson, Johnson, Kay, Kochan, Koger, Lehman, Lue Stewart, Murray, Owens, Short, Stewart, Wise

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 Education Doctoral Program and the Graduate Certificate in Initial Teacher Professional Preparation. The Department houses the Specialist in Education program, the M.A. in Applied Learning and Instruction, the M.A. in Curriculum and Instruction and the M.Ed. in Teacher Leadership 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. The department also houses the Educational Studies Minor and the Educational Studies Certificate and Substitute Teaching Certificate programs.

Department of Teaching and Learning Principles

Chair: Michael Hynes; ED 209-D; 407-823-2005
Assistant to the Chair: Janet Zajac, ED 206-C; 407-823-0523 and Maria Cox, ED 206-D; 407-823-1763

Faculty: Andreassen, Blair, Blessing, Brewer, Buchoff, Cardullo, Circle, Clements, Cohn, Diaz, Dixon, Ergle, Everett, Frazee, Gerking, Gresham, Haciomeroglu, Hoffman, Hopkins, Hynes, Jeanpierre, Kaplan, Kelley, Kerness, Lawless, Little, McLaughlin, Nucciforo, Nutta, Ortiz, Roberts, Romjue, Roy, Russell, Scharlach, Seeley, Snider, Spalding, Stanley, Starzynski, Sweeney, Tinsley, Verkle, Walters, Waring, Wegmann, Whiteman, Wienke C., Williams K., Wilson, Zajac, Zygouris-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 postsecondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, and Technical Education and Industry Training. Graduate level programs are available in Art Education, Elementary Education, English Language Arts Education, K-8 Mathematics and Science Education, Mathematics Education, Science Education, Social Science Education, Reading Education and Vocational Education. The Ph.D. in Education is available with tracks in Mathematics Education, Elementary Education, Science Education, Social Science Education, and Art 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 Education and Foreign Language Education (French or Spanish).

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Education are located at: http://oeas.ucf.edu/alc/alc_students_coe.htm

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE



College of Engineering and Computer Science

Interim Dean: Marwan Simaan; HEC 114; 407-823-2156
<http://www.cecs.ucf.edu>

Executive Associate Dean:

Essam Radwan; HEC 114; 407-823-2156

Interim Associate Dean for Academic Affairs:

Charles Reilly; ENGR 107; 407-823-2455

Assistant Dean for Distributed and Distance Learning:

Alfred Ducharme; ENGR 289; 407-823-5765

Director, Academic Affairs:

Melissa Dagley-Falls; ENGR 107; 407-823-2455

Director, College Honors Programs:

Donald Malocha; ENGR 114; 407-823-2414

Director, Educational Partnerships:

Bruce Furino; ENGR 281; 407-823-4927

Undergraduate Majors and Degrees

Aerospace Engineering
Civil Engineering
Computer Engineering
Computer Science
Construction Engineering
Electrical Engineering
Electrical Engineering Technology - Electrical Systems Concentration
Engineering Technology - Design Concentration
Engineering Technology - Operations Concentration
Environmental Engineering
Industrial Engineering
Information Systems Technology
Information Technology
Mechanical Engineering

BSAE
BSCE
BSPE
BS
BSConE
BSEE
BSEET
BSET
BSET
BSVE
BSIE
BS
BS
BSME

Accelerated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil, Environmental and Construction 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 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 five 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:

- **EDUCATION:** 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 lifelong learners.

- **RESEARCH:** Expanding the knowledge base of engineering and computer science through dynamic research and, applying new discoveries for problem solving.
- **PARTNERSHIPS:** Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic, and social well-being of humankind.
- **OPPORTUNITY:** 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:** Be held to the highest standards of trust and accountability.
- **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 high 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.
- 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, Environmental, and Construction Engineering (CECE) 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 Computer Science, Information Technology, and Electrical and Computer Engineering. The Engineering Technology Division is comprised of the Engineering

College of Engineering and Computer Science

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 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 accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700. The Computer Science program is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

The Engineering Technology Division and Department offers baccalaureate concentrations in Design and Operations, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and a concentration in Electrical Systems, leading to the Bachelor of Science in Electrical Engineering Technology (BSEET) degree. Both the BSEET Electrical Systems and BSET degrees are accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: 410-347-7700. 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, Environmental, and Construction Engineering

Chair: Lakshmi N. Reddi; ENG2 211; 407-823-2841;
Fax: 407-823-3315
<http://www.cece.ucf.edu>

Faculty: Abdel-Aty, Al-Deek, Catbas, Chang, Chopra, Cooper, Duranceau, Hagen, Khalafallah, Kuo, Mackie, Nnadi, Oloufa, Radwan, Randall, Reddi, Reinhart, Wayson, Yeh

The Civil, Environmental, and Construction Engineering Department (CECE) offers baccalaureate degrees in Civil Engineering (BSCE), Environmental Engineering (BSEnE), and Construction Engineering (BSConE).

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, and transportation 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. 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.

Program Outcomes

1. Graduates will solve problems that involve differential and integral calculus, differential equations, analytical and numerical solutions, and statistics.
2. Graduates will solve problems that address engineering economics issues such as life-cycle analysis and the selection of alternatives.
3. Graduates will solve problems involving topics from physics such as vector mechanics and equilibrium.
4. Graduates will demonstrate knowledge of the role of an engineer involving ethics, professionalism, engineering practice and licensure.
5. Graduates will demonstrate the ability to conduct experiments, collect information, and analyze and interpret data.
6. Graduates will demonstrate an ability to communicate their ideas effectively through written and oral reports.
7. Graduates will demonstrate the ability to work in teams to solve engineering problems.
8. Graduates will understand the need to continuously update their knowledge through licensure, continuing education, and participation in professional societies.
9. Graduates will be able to complete a comprehensive civil engineering design project incorporating the use of design and regulatory standards, and realistic constraints that could include contemporary issues such as economics, globalization, societal impact and safety.
10. Graduates will be able to synthesize skills learned in their program to solve real-world problems and to generate and evaluate viable solutions.

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.

Program Outcomes

1. Graduates will solve problems that involve differential and integral calculus, differential equations, analytical and numerical solutions, and statistics.
2. Graduates will solve problems that address engineering economics issues such as life-cycle analysis and the selection of alternatives.
3. Graduates will solve problems involving topics from chemistry such as stoichiometry, kinetics, equilibrium and gases.
4. Graduates will demonstrate knowledge of the role of an engineer involving ethics, professionalism, engineering practice and licensure.
5. Graduates will demonstrate the ability to conduct experiments, collect information, and analyze and interpret data.
6. Graduates will demonstrate an ability to communicate their ideas effectively through written and oral reports.
7. Graduates will demonstrate the ability to work in teams to solve engineering problems.
8. Graduates will understand the need to continuously update their knowledge through licensure, continuing education, and participation in professional societies.
9. Graduates will be able to complete a comprehensive environmental engineering design project incorporating the use of design and

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regulatory standards, and realistic constraints that could include contemporary issues such as economics, globalization, societal impact and safety.

10. Graduates will be able to synthesize skills learned in their program to solve real-world problems and to generate and evaluate viable solutions.

The Construction Engineering Program

The Construction Engineering major is concerned with preparing students for the engineering management of construction projects by developing skills for the selection of construction methods and processes, construction project planning and control, and resource management. Construction Engineering students are required to take a minimum of two Project Design Courses, (Construction Engineering Design and Geotechnical Engineering Design), 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 Construction Engineering Program Faculty strives 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 Construction Engineering graduate education and research.

Program Objectives

Within the first several years following graduation, graduates should:

- Be successfully employed or employable in construction engineering practice in areas such as estimating, scheduling, program development, and construction project management, 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 Construction Engineering and Management such as construction process design, cost estimating, scheduling, construction methods and equipment, and project administration and control.
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 knowledge of business, management, legal, and professional issues.
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.
7. Provide a knowledge base necessary for the engineering management of construction projects including management principles, process improvement, and legal concepts.

Program Outcomes

1. Graduates will solve problems that involve differential and integral calculus, differential equations, analytical and numerical solutions, and statistics.
2. Graduates will solve problems that address engineering economics issues such as life-cycle analysis and the selection of alternatives.
3. Graduates will demonstrate knowledge of estimating, scheduling, project control, resource allocation, risk management, and legal issues.
4. Graduates will demonstrate knowledge of the role of an engineer

involving ethics, professionalism, engineering practice and licensure.

5. Graduates will demonstrate the ability to conduct experiments, collect information, and analyze and interpret data.
6. Graduates will demonstrate an ability to communicate their ideas effectively through written and oral reports.
7. Graduates will demonstrate the ability to work in teams to solve engineering problems.
8. Graduates will understand the need to continuously update their knowledge through licensure, continuing education, and participation in professional societies.
9. Graduates will demonstrate proficiency in the design of construction processes, methods, and safety.
10. Graduates will be able to complete a comprehensive real-world construction engineering design project incorporating the use of design and regulatory standards, and realistic constraints that could include contemporary issues such as economics, globalization, societal impact and safety.

The mission statement and objectives for the Civil Engineering, Environmental Engineering, and Construction Engineering programs are electronically posted and routinely updated. More information on the Civil and Environmental Engineering programs can be found on the CECE Department home page at <http://www.cece.ucf.edu>.

Department Policy for Double Major in Civil, Environmental, and Construction Engineering

The faculty of the Civil, Environmental, and Construction Engineering Department believe that a double major from the 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, Environmental, or Construction Engineering desiring to obtain a double major 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 majors 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 a Civil Engineer, an Environmental Engineer, a Construction Engineer or a combination thereof.
- 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 17 hours of extra courses required for Civil Engineering majors pursuing Environmental Engineering as a second major 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 21 hours of extra courses required for Environmental Engineering majors pursuing Civil Engineering as a second major includes all the required courses of Civil Engineering, namely: SUR 2101C, CES 4100C, CEG 4011C, TTE 4004, CGN 3501C or EGN 3365, and either CES 4605 or CES 4702.
- The 13 hours of extra courses required for Construction majors pursuing Civil Engineering as a second major includes all the required courses of Civil Engineering, namely: CWR 4101C, CWR 4203C, EGN 3373, EGN 3343, and ENV 4561.
- The 16 hours of extra courses required for Civil Engineering majors pursuing Construction Engineering as a second major would include all the required courses of Construction Engineering: CCE 4004, CCE 4402, CCE 4813, CCE 4034, and CCE 4810.
- One diploma indicating only one major will be awarded, both

majors will be indicated on the student's transcript. If a student desires two separate diplomas, a B.S.C.E., a B.S.Env.E., and/or a B.S.Con.E., this is permitted, per university policy, for students who have a minimum of 150 credit hours.

School of Electrical Engineering and Computer Science

Director: Issa Batarseh; HEC 437; 407-823-3957

Faculty: Bassiouni, Batarseh, Behal, Behdad, Boloni, Chatterjee, da Vitoria Lobo, DeMara, Deo, Dutton, Foroosh, Gallagher, Georgiopoulos, Gomez, Gong, A. Gonzalez, Guha, Haralambous, Heinrich, Hua, Hughes, Jones, Kasparis, Lang, LaViola, Leavens, Lee, Liou, Llewellyn, Malocha, Marinescu, Mikhael, Mukherjee, Orooji, Pattanaik, Qu, Richie, Rolland, Shah, Shen, Stanley, Sukthakar, Sundaram, Tappen, Turgut, Wahid, Wang, Weeks, Wei, Wocjan, Workman, A. Wu, T. Wu, Yuan, Zhang, Zhou, Zou

The Computer Science Program

The Computer Science program offers courses and programs leading to Bachelor of Science, Master of Science (see online *Graduate Catalog*), and Doctor of Philosophy (see online *Graduate Catalog*) degrees in Computer Science. In addition, the program offers minors in Computer Science and 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, human-computer interaction, machine learning, mixed and virtual reality, multi-agent systems, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, quantum computing, 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 EECS. To learn about the current status of research facilities and projects, visit faculty web pages. These may be found by following links from the EECS home page at <http://www.eecs.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.

Educational Objectives

1. To give CS graduates the knowledge and skills necessary to participate as effective team members or team leaders in the development of large computer and software systems covering a broad range of engineering and scientific applications.
2. Prepare CS graduates for professional careers in roles including, but not limited to, the following: computer programmer, software engineer, software systems designer, software applications developer, technical software project lead, computer systems analyst, computer systems programmer, software applications tester and maintainer.
3. To prepare CS graduates with the knowledge and skills to do advanced studies and research in computer science and related engineering and scientific disciplines.
4. To equip CS graduates with the communication skills, both oral and written, to become effective team-oriented problem solvers as well as effective communicators with non-technical stakeholders in computer and software systems development, maintenance and administration.

Program Outcomes

1. CS majors shall demonstrate knowledge of discrete and continuous mathematics and their skills in applying logic and mathematical proof techniques.
2. CS graduates shall demonstrate knowledge and skill in algorithm design and complexity analysis.

3. CS majors shall demonstrate knowledge of programming fundamentals by their degree of programming skill using at least three programming languages dominant in the computing industry.
4. Graduating CS majors shall demonstrate knowledge and understanding of the concepts, design principles and fundamental algorithms relating to computer architecture and organization, computer operating systems, computer networks and distributed computing.
5. Graduating CS majors shall demonstrate their effectiveness in technical oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing technology and applications.
6. Graduating CS majors shall demonstrate knowledge of fundamental concepts and principles in software engineering and the skills to apply best-practices in software development processes, methods and tools.
7. Graduating CS majors shall be highly competitive professionals in the market place of entry level jobs requiring technical skills in application software development.
8. Graduating CS majors shall be highly competitive in their acceptance for advanced study at colleges and universities ranked in the same tier with UCF or higher.

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, ethics in science and technology, human technology interaction, IT system integration, enterprise computing, and web-based IT will prepare these students to deal with the subject areas and communicate in the parlance of the industries in which they choose to work. The curriculum also includes up to 12 hours of free electives that allow students to pursue a minor degree or concentration area such as education, health, business, or criminal justice, to which information technology may be applied.

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.

Educational Objectives

1. To prepare IT graduates with the knowledge and skills necessary to be effective professional contributors or leaders in the design, administration and management of information technology systems, databases and networks commonly used by industry, government, education, research and non-profit organizations.
2. To prepare IT graduates for professional careers in roles including, but not limited to, the following: IT manager, IT systems analyst, network designer, network administrator, network security administrator, web applications developer, webmaster, database administration, IT project lead, IT quality assurance.
3. To equip IT graduates with the communication skills, both oral and written, to become effective team-oriented problem solvers as well as effective communicators with non-technical users of information technology systems and applications.
4. To prepare IT graduates with the knowledge and skills to conduct advanced studies and research in disciplines for web-based applications, networking, information storage and retrieval, IT security, electronic commerce.

Program Outcomes

1. Demonstrate expertise in the main content knowledge of information technology.
2. Effectively use information science and technology frameworks (concepts, principles, methods, languages and theories) to design, analyze, and construct solution in a network-based environment.

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- Effectively apply scientific and mathematical principles, methods and techniques to the research and development of emerging technologies in the computing field.
- Critically analyze and apply a range of information science and systems concepts, principles, and practices in the context of solving problems across a range of information technology problem domains.
- Develop computer-based applications using the information technology body of knowledge.
- Employ terminology for information technology accurately and effectively
- Use technical writing effectively and professionally for varied audiences.
- Convey technical material through oral presentations of information technology related topics.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context,
- A recognition of the need for, and an ability to engage in life-long learning,
- A knowledge of contemporary issues,
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice,
- A knowledge of probability and statistics, mathematics through differential and integral calculus, basic sciences, computer science, and engineering sciences necessary to analyze and design complex electrical and electronic devices, software, and systems containing hardware and software components, and
- A knowledge of discrete mathematics.

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 Electrical Engineering (M.S.E.E.), Master of Science in Computer Engineering (M.S.P.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 Embedded Systems and Computer Architecture (EEL 4767C and EEL 4768C), Computer Science I (COP 3502) and Digital Systems (EEE 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 UCF Computer Engineering Program is to develop and disseminate the theory and methods for the design, analysis, implementation, and improvement of computer hardware, software, and systems.

Educational Objectives

The educational objectives are to prepare:

- All graduates for careers in industry or technical entrepreneurship within the computer engineering field,
- Interested graduates for pursuit of graduate study and advanced degrees at UCF or elsewhere, and
- All graduates for advancement within the professional community through ethical engineering practices and career-long learning processes.

Program Outcomes

Graduates of the Computer Engineering program should attain:

- An ability to apply knowledge of mathematics, science, and engineering,
- An ability to design and conduct experiments, as well as to analyze and interpret data,
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability,
- An ability to function on multidisciplinary teams,
- An ability to identify, formulate, and solve engineering problems,
- An understanding of professional and ethical responsibility,
- An ability to communicate effectively,

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 (EEE 3307C and EEE 4309C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Embedded Systems (EEL 4767C), Networks and Systems (EEL 3123C) and Digital Circuits and Systems (EEE 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 Statement

The mission of the Electrical Engineering Program is to develop and disseminate the theory and methods for the design, analysis, and implementation of the principles and practices in Electrical Engineering

Educational Objectives

The educational objectives are to prepare

- Students for careers in industry or technical entrepreneurship within the electrical engineering field
- Interested students pursuit of graduate study and advanced degrees at UCF or elsewhere, and
- Students for advancement within the professional community through ethical engineering practices and career-long learning processes.

Program Outcomes

Graduates of the Electrical Engineering program should attain:

- An ability to apply knowledge of mathematics, science, and engineering
- An ability to design and conduct experiments, as well as to analyze and interpret data
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- An ability to function on multidisciplinary teams
- An ability to identify, formulate, and solve engineering problems
- An understanding of professional and ethical responsibility,
- An ability to communicate effectively
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context,
- A recognition of the need for, and an ability to engage in life-long learning,
- A knowledge of contemporary issues
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- Knowledge of probability and statistics, mathematics through differential and integral calculus, basic science, computer science, and engineering science necessary to analyze and design complex electrical and electronic devices
- Knowledge of advanced mathematics typically including differential equations, linear algebra and complex variable

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

Chair: Waldemar Karwowski; ENG2 312; 407-823-2204;
Fax 407-823-3413

Faculty: Calabrese, Crumpton-Young, Elshennawy, Geiger, Hoekstra, Karwowski, Kotnour, Lee, Malone, McCauley-Bush, Mollaghasemi, Nazzal, Pet-Armacost, Proctor, Rabelo, Reilly, Sala-Diakanda, Sepulveda, Thompson, 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 system design in the two-semester capstone design sequence, EIN 4516 and EIN 4891.

Mission

To produce industrial engineering leaders who design and improve operations in industry, business, and government for the global economy of the 21st century. Specifically, we seek:

1. To provide graduates with the necessary knowledge and skills to assume challenging jobs in leading private and public organizations, pursue advanced studies, or start-up their own businesses.
2. To provide employers with graduates who are technically competent, have basic management and inter-personal skills, and ability to professionally grow and develop their careers.
3. To provide the society with graduates who conduct themselves professionally and ethically and who appreciate the impact and importance of their work on society.

Educational Objectives:

1. To produce graduates capable of applying mathematics, science, and engineering fundamentals to practical engineering problems.
2. To produce graduates who recognize that engineering is a service profession that must be practiced with integrity, honesty, and objectivity.
3. To produce graduates capable of designing experiments and analyzing data to characterize problems.
4. To produce graduates capable of designing systems, components, and processes to meet specific needs, and of applying

industrial engineering techniques to solve problems.

5. To produce graduates who communicate effectively, both orally and in writing.
6. To produce graduates who contribute to multi-disciplinary team efforts.
7. To produce graduates who are responsible to the industrial engineering profession and to our modern global society.
8. To produce graduates who value life-long learning.

Program Outcomes:

1. Students will be able to apply mathematics, science and engineering fundamentals in classroom and real world projects.
2. Students will make responsible decisions and exhibit integrity in classroom and real world projects.
3. Students will be able to collect, analyze, and interpret data in classroom and project settings as well as drawing meaningful conclusions and developing sound recommendations..
4. Students will effectively utilize industrial engineering design and problem-solving skills in classroom and real world projects.
5. Students will communicate effectively, orally and in writing, to peers and superiors in classroom and real world projects.
6. Students will be able to work with persons of varied backgrounds in classroom and real world projects.
7. Students will incorporate contemporary global, economic, and social perspectives into the practice of industrial engineering.
8. Students will be able to measure the impact of global and societal issues on industrial engineering solutions to modern practical problems
9. Students will explore options for professional growth, including graduate study, conference attendance, and professional society participation.
10. Students will utilize tools and techniques of industrial engineering to effectively and efficiently design systems, products and processes that meet the needs of the society.

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

Interim Chair: David Nicholson; ENGR 307; 407-823-2416;
Fax 407-823-0208

Faculty: An, Basu, Bishop, Q. Chen, R. Chen, Chew, Cho, Chow, Coffey, Fang, Fenton, Gordon, Gou, Huang, Ilegbusi, Kapat, Kassab, Kumar, Lin, Minardi, Moslehy, Orlovskaya, Raghavan, Seal, Sohn, Suryanarayana, Vaidyanathan, C.Xu, Y. Xu

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:

College of Engineering and Computer Science

1. Provide the highest quality aerospace engineering professionals and leaders.
2. 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.
3. 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.

Educational Objectives

1. **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.
2. **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.
3. **Professionalism:** To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.
4. **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.

Program Outcomes

1. An in-depth understanding of engineering principles and aerospace concepts in a core area of engineering. Students emphasizing aeronautics will have a command of aerodynamics, aerospace materials, structures, propulsion, flight mechanics and stability and control. Students emphasizing astronautics will have the command of topics such as orbital mechanics, attitude determination and control, launch processing, space structural dynamics, etc.
2. A broad understanding of engineering, and scientific principles & responsibilities, and the ability to apply these principles to design and analysis.
3. A broad understanding of social, cultural, and ethical principles and responsibilities.
4. An ability to identify, define and solve complex problems that cut across disciplines.
5. An ability to apply math, science, and engineering to problems at the interface between component design and system design.
6. An ability to communicate effectively using appropriate technology and efficiently use information resources.
7. An ability to work collaboratively in multi-disciplinary teams and understand team dynamics.
8. The ability to generate questions and hypotheses, design experiments that will provide meaningful answers, and collect and interpret measurements from aerospace engineering applications.
9. The ability to adapt to sociological and technological change.
10. A significant professional or research experience prior to graduation demonstrating their ability to describe a range of design options, to evaluate the tradeoffs for each option, to understand the need to design for manufacturability and production, and to integrate these concepts to select the best option.
11. The ability to use modern engineering tools in experiments, analysis and design, and to assess the appropriateness of these tools.
12. An understanding of contemporary aerospace engineering applications of technology and their uses in engineering practice.

Mission: Mechanical Engineering

In support of the University and College missions, the Mechanical Engineering program at UCF is committed to:

1. Provide the highest quality engineering professionals and leaders.

2. 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.
3. 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.

Educational Objectives

1. **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.
2. **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.
3. **Professionalism:** To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.
4. **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.

Program Outcomes

1. An in-depth understanding of engineering principles and mechanical concepts in a core area of engineering. Students will concentrate on mechanical systems, energy systems or material engineering with an emphasis on design.
2. A broad understanding of engineering, and scientific principles & responsibilities, and the ability to apply these principles to design and analysis.
3. A broad understanding of social, cultural, and ethical principles and responsibilities.
4. An ability to identify, define and solve complex problems that cut across disciplines.
5. An ability to apply math, science, and engineering to problems at the interface between component design and system design.
6. An ability to communicate effectively using appropriate technology and efficiently use information resources.
7. An ability to work collaboratively in multi-disciplinary teams and understand team dynamics.
8. The ability to generate questions and hypotheses, design experiments that will provide meaningful answers, and collect and interpret measurements from mechanical engineering applications.
9. The ability to adapt to sociological and technological change.
10. A significant professional or research experience prior to graduation demonstrating their ability to describe a range of design options, to evaluate the tradeoffs for each option, to understand the need to design for manufacturability and production, and to integrate these concepts to select the best option.
11. The ability to use modern engineering tools in experiments, analysis and design, and to assess the appropriateness of these tools.
12. An understanding of contemporary mechanical engineering applications of technology and their uses in engineering practice.

Department of Engineering Technology

Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746
 Program Coordinator BSET Programs: E. Divo; ENGR 207: 407-823-4753

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, Craiger, Divo, Ducharme, Mehrabian, Misconi, Morse, Motlagh, Osborne, Pollit, Rahrooh, Shepard, Sleiti, Yousef

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.

Educational Objectives:

1. Objective 1 (Technical Knowledge) - Broad knowledge of electrical/electronics, engineering technology practices to support design, application, installation, manufacturing, operation and maintenance as required by their employer.
2. Objective 2 (Technical Skills) - Apply basic mathematical and scientific principles for technical problem solving in areas which include circuit analysis of both analog and digital electronics, microprocessors....
3. Objective 3 (Computer Skills) – Utilize computers and software in a technical environment.
4. Objective 4 (Communication Skills) - Demonstrated competence in written and oral communications.
5. Objective 5 (Professional Skills) - Work effectively as an individual and as a member of a multidisciplinary team.
6. Objective 6 (Social Awareness) - Awareness of social concerns and professional responsibilities in the workplace.
7. Objective 7 (Life-long Learning) - Continued professional training and ability to adapt to changes in the workplace through formal and informal education.

Program Outcomes:

Students should be able to:

1. Apply basic knowledge in electronics, electrical circuit analysis, power systems, microprocessors, photonics, programmable logic controllers, and control systems.
2. Apply basic mathematical, scientific, and engineering concepts to technical problem solving
3. Conduct experiments, and then analyze and interpret results
4. Apply creativity through the use of project-based work to design circuits, systems and processes
5. Work effectively in teams
6. Demonstrate a working knowledge of drafting, computer usage, including the use of one or more computer software packages for technical problem solving
7. Communicate effectively orally, visually and in writing
8. Recognize the need for lifelong learning and be prepared to continue their education through formal and informal study
9. Understand professional, ethical and social responsibilities
10. Have a respect for diversity, and a knowledge of contemporary professional, societal and global issues
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.

Educational Objectives:

1. Career: Graduates will have a broad understanding of the key principles and practices of engineering technology, the written and oral communications skills, and the ability to work with others to apply these skills and knowledge to the design, implementation, and maintenance of systems within their concentration: industrial operations, mechanical design, construction design, space science, or geomatics.
2. Skills: Graduates will have an understanding of the mathematical and scientific concepts that underlie engineering technology applications, will apply this understanding, and acquire new skills and knowledge necessary to analyze technology problems and develop suitable solutions.
3. Professionalism and Ethics: Graduates will have an understanding of the ethical, human, and social issues of their field and will be involved members of the local and global communities acting as responsible technical professionals.
4. Life-Long Learning: Graduates will be active contributors to their profession with a strong commitment to continuous individual and organizational improvement, effective communication, teamwork, quality, and timeliness.

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.

College of Engineering and Computer Science

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.

Educational Objectives:

1. Graduates will have a broad understanding of the key principles and practices of information systems and technology, including the application of their skills and knowledge to the design and implementation of information technology systems.
2. Graduates will have an understanding of the mathematical and scientific concepts that underlie information systems, and will have applied this understanding, as appropriate, in analyzing the application to real-world problems and designing suitable solutions.
3. Graduates will have an understanding of ethical, human and social issues, and will be informed and involved members of their local and global communities, and responsible information systems and technology professionals.
4. Graduates will have appropriate interaction and organizational skills, and will be routinely using and further developing these skills in their professional careers.
5. Graduates will be actively engaged in learning, understanding, and applying new ideas and technologies as the field evolves.

Program Outcomes:

1. An ability to apply knowledge of computing and mathematics appropriate to the discipline
2. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
3. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs
4. An ability to function effectively on teams to accomplish a common goal
5. An understanding of professional, ethical, legal, security, and social issues and responsibilities
6. An ability to communicate effectively with a range of audiences
7. An ability to analyze the local and global impact of computing on individuals, organizations and society
8. Recognition of the need for, and an ability to engage in, continuing professional development
9. An ability to use current techniques, skills, and tools necessary for computing practices
10. An understanding of processes that support the delivery and management of information systems within a specific application

Reserve Officer Training Corps

Air Force ROTC (Aerospace Studies)

Chair: Col. Michael J. Chandler; Trailer 501, Room 103; 407-823-1247; Fax 407-823-2265

Faculty/Staff: Captain Gray, Captain Lehmann, Captain Johnson, MSgt Fields, SSgt Sutton, 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 and a half-year Air Force ROTC programs. The four and three-year program provides on-campus study during the freshman through senior years. The two and a half-year program allows community college transfer students and other students with two and a half 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 program. 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 Assessment each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or five 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 \$450 or \$500 per month based on their academic classification.

Air Force ROTC Scholarship Program

Scholarships are phased between two and four years and are awarded on a competitive basis. 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. 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 five-week summer course, which includes a modified version of the General Military Course, is required for students entering the two and a half-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 Sean Morgan; Trailer 501, Room 110

Faculty/Staff: LTC (R) Morales, MAJ Celeste, MAJ Smith, CPT Hall, 1LT Alexander, MSG Coella, SFC Satchell, Ms. Brown, Ms. Connor, Mr. Rivera; 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 students an opportunity to earn a commission as a Second Lieutenant after graduation 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 Baccalaureate or Graduate degrees. Program now offers 4, 3, and 2 year scholarship options. The four-year option requires completion of one military science course and a leadership laboratory that must be taken in conjunction with the academic class every semester. The two-year option allows students with at least two academic years remaining to complete their degrees to meet all requirements for commissioning by receiving placement credit for the first two years (Basic Course) and completing the last two years (Advanced Course). 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. 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 curriculum is designed to develop students' leadership potential and improve students' planning, organizational, and managerial skills. The 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 Course consists of four semesters of classroom instruction of one hour each week and a two hours leadership lab. Students incur no military commitment by participating in the Basic Course, unless they qualify and choose to contract as a scholarship or non-scholarship student. 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 1001, 1002, 2101, 2102). Students will also participate in a Field Training Exercise (FTX). These general elective courses are normally taken during the freshman and sophomore years and 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) consists of four semesters of classroom instruction of two hours each week and a two hours leadership lab that 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 want to pursue a commission as a Second Lieutenant must meet pre-requisite requirements to contract and must obtain permission from the department chair prior to participating in the Advanced 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, or placement credit
- Must be at least 17 years of age at the time of entry, but not more than 31 years of age at the time of commissioning (31-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 Basic and Advanced Military Science Courses receive a tax-free monthly stipend of \$300 during the freshman year, \$350 during the sophomore year, \$450.00 during the Junior year and \$500.00 during the Senior 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 or room and board not to exceed \$10,000 and \$1,200 annually for books and fees. In addition, all contracted scholarship students also receive the monthly stipend during the school year. Contact the Enrollment Officer for additional information at 407-823-5383.

5. Placement Credit

Placement credit for the Basic Course can be offered to students with prior service, 3 years of Junior ROTC, and completion of the Leaders Training Course (see below). Placement credit for prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service and Junior ROTC waives the Basic Course, a student that qualifies for placement credit may elect to enroll in the Basic Course.

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)**

Under the two year option a student can earn placement credit for the Basic Course by attending a 31-day course at Fort Knox, Kentucky. Students attending the summer course receive approximately \$800.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense to the student.

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; and e) Mountain Training.

3. Leadership Development and Assessment Course (LDAC)

All Advanced Course 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.

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Engineering and Computer Science are located at:

http://oeas.ucf.edu/alc/alc_students_coecs.htm

COLLEGE OF HEALTH AND PUBLIC AFFAIRS

COLLEGES



College of Health and Public Affairs

Dean: Michael L. Frumkin, 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 365, 407-823-0171

Associate Dean, Research:

Thomas Wan, BNT 108, 407-823-0170

Associate Dean:

Joyce Dörner, M.N., HPA 365, 407-823-0171

The College of Health and Public Affairs houses six departments and schools: the School of Social Work, and the departments of Communication Sciences and Disorders, Criminal Justice and Legal Studies, Health Professions, Health Management & Informatics, 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 or restricted 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 Web site.

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

Undergraduate Student Services

Executive Director: Judith A. Sindlinger, HPA2 115, 407-823-0010,
 E-mail: hpainfo@mail.ucf.edu

The College of Health and Public Affairs 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 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 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: TBA, Research Pavilion Suite 155, 407-249-4770

Faculty: Barnes, Barrett, Carson, DiNapoli, Dreilinger, B. Ehren, T. Ehren, Harvey, Hostetler, Kent-Walsh, Kong, Lieberman, Nye, Parsons, Ratusnik, Resnick, 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 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 speech-language pathology or audiology assistants.

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 must 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 communication 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, PhD in Education, Communication Sciences and Disorders Track)

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, Griset, Holmes, Hull, Kirby, Koblasz, Lanier, Lucken, Mahan, Malendevych, B. McCarthy, Milon, Myers, Pons, 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.

Program in Criminal Justice

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.

Program in Legal Studies

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. 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 Management and Informatics

Interim Chair: Aaron Liberman, HPA2 210, 407-823-2359

Faculty: Cortelyou-Ward, Douglass, Falen, Fottler, Liberman, Lytle, Malvey, Noblin, Oetjen, Pierce, Ramirez, Rotarius, Unruh, Walters, Wan, Zhang.

The mission of the Department of Health Management and Informatics is to be the leading program in training Health Services executives in Central Florida. In order to realize this mission, the department offers two undergraduate degree programs in Health Services Administration and Health Information Management. Each program is designed to provide students with the skills and knowledge necessary to become a leader in the field of health care management.

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 members are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment, and integrated delivery mechanisms.

Persons 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 provides a migration path from the clinical side of the health care industry to the leadership side. Students willing to develop a background in the health care industry can build a solid understanding of the complexity of managing health services organizations.

Program in Health Information Management

Director: A. Noblin, HPA2 210, 407-823-2353

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).

The HIM Program 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 examination. Upon successfully passing the examination, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

College of Health and Public Affairs

Department of Health Professions

Interim Chair: Aaron Liberman, HPA2 210, 407-823-2359

Faculty: Angelopoulos, Bertetta, Douglass, Gosnell, Hanney, Lee, McDonough, Salter, Schellhase, Segal, Smith, Wagner, Worrell.

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 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: Steve Shideler, 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 March 1st of the year in which admission to the program is sought.

Degrees: Cardiopulmonary Sciences (BS)

Tracks: None

Minors: None

Program in Health Sciences-Athletic Training Track

Director: Kristen C. Schellhase, HPA2 124, 407-823-3463

The Program in Athletic Training at the University of Central Florida is a track in the 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 settings 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 graduate 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 Track

Director: David M. Segal, Ph.D., HPA2 203, 407-823-6761,

E-mail: dsegal@mail.ucf.edu

<http://www.cohpa.ucf.edu/health.pro/hsgbs.cfm>

The Health Sciences-Pre-Clinical Track is a preparatory program for graduate level clinical disciplines for the student who wishes to seek admission to graduate level clinical programs in physical therapy, occupational therapy, pharmacy, physical assistant, medicine, dentistry, and veterinary medicine. 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 Radiologic Sciences

Director: S.D. Gosnell, HPA2 208, 407-823-2747

The University of Central Florida offers the only public accredited Bachelor of Science in Radiologic Sciences limited access 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 "Statewide Articulated A.S. to B.S. 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 area hospitals and imaging centers.

Degrees: Radiologic Sciences (BS)

Tracks: None

Minors: None

Department of Public Administration

Chair: Mary Ann Feldheim, HPA2 238, 407-823-2604

Faculty: Abels, Bryer, Colby, Collins, Feldheim, Hawkins, Jurie, Kapucu, Korosec, Krick, Lawther, Liou, Martin, Rogers, Wang.

The Department of Public Administration offers a variety of degrees, minors and a certificate providing students with a broad understanding of public and nonprofit management. The public sector is vast and includes over 20 million employees, and the nonprofit sector has expanded to nearly half that number as governments transition the provision of services through nonprofit organizations. 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 enable students to attain entry level positions in government and other nonprofit 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.

There are numerous public and nonprofit employment opportunities with jobs available in nearly every area of specialization. For instance, public servants include engineers, accountants, fire fighters, police, physicians, nurses, botanists, chemists, nutritionists, project managers, community planners, city and county administrators, social workers, psychologists, psychiatrists, policy analysts, grant writers, contract managers, quality assurance managers and evaluators. The range of employment opportunities is extraordinary and includes a variety of management and staff positions in environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration and emergency management, among others. The salaries are generally competitive with private industry, despite common misconceptions to the contrary. Employment in the public and nonprofit sector provides graduates with the opportunity to "make a difference" in their communities on a national, state or local level.

Degrees: Public Administration (BA, BS, MPA, MNM)

Tracks: None

Minors: Public Administration, Urban and Regional Planning,
Emergency Management and Homeland Security,
Non-Profit Management Minor with American Humanics
National Certification Program

Certificates: Nonprofit Management

School of Social Work

Director: John Ronnau, HPA 204, 407-823-2114

Faculty: Abel, Bricout, Buckey, L. Davis, Gammonley, Kohn, Lawrence, Leon, Molina, Ramos, Rothenberg, Steen, Withers.

The School of Social Work BSW Program (undergraduate social work program) prepares baccalaureate level students for entry level positions within diverse human service organizations. Today social workers are continuing their efforts in Congress, hospitals, mental health centers, schools, substance abuse programs, neighborhood centers, nursing homes, homeless shelters, hospice programs, and many other settings. Social workers work with people from all backgrounds to help them find ways to live richer and more productive lives.

The curriculum, nationally accredited by the Council on Social Work Education aims to graduate social work generalists who can teach people how to create their own path and enhance their quality of life. Our graduates will assist people in changing patterns of behavior, poverty, abuse, and oppression and help them to develop effective coping skills for life's challenges. The Social Work Program is a limited access program that requires a separate application to the School of Social Work.

The strengths perspective is central to the social work profession emphasizing resources, capabilities, resilience, and sees obstacles as challenges. We help anytime, anywhere. Help Starts Here!

The School of Social Work also offers Certificate Programs in Aging Studies, Children's Services, and Addictions with special concentrations in these areas. If a student wishes to pursue their academic endeavors further, the School of Social Work also offers a Master's in Social Work.

Degrees: Social Work (BSW, MSW)

Tracks: None

Minors: Aging Studies

Certificates: Addictions, Aging Studies, Children's Services

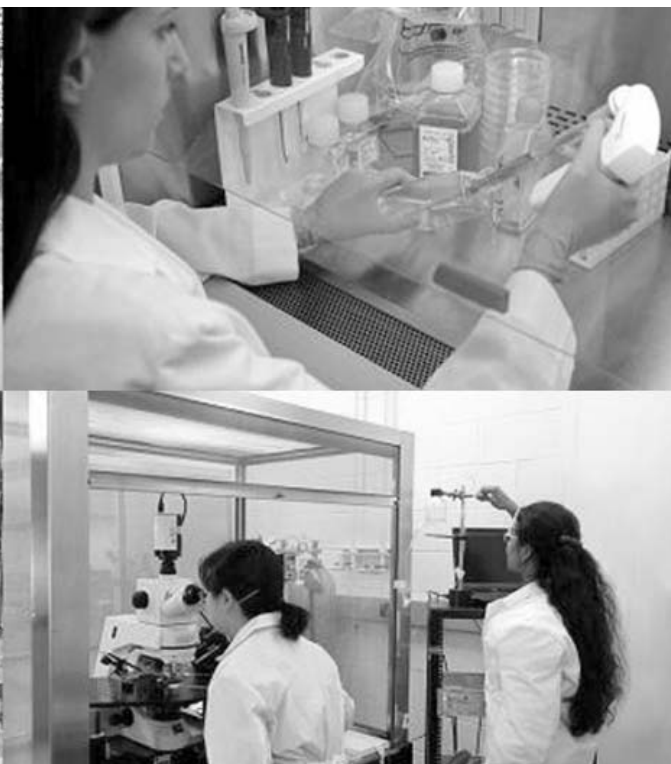
Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Health and Public Affairs are located at:

http://oeas.ucf.edu/alc/alc_students_cohpa.htm



COLLEGE OF MEDICINE

COLLEGES



College of Medicine

Dean: Deborah C. German, M.D., University Tower, 3rd Floor;
407-823-1841
<http://www.med.ucf.edu/>

The University of Central Florida (UCF) College of Medicine was established in 2006 by the Florida Legislature and the Florida Board of Governors to increase opportunities for medical education in Florida, address the nationwide growing shortage of physicians, and provide economic benefits to Central Florida and the State. In Fall 2009, the College of Medicine will welcome its first Doctor of Medicine (M.D.) students. Details on the application process for the UCF M.D. program are available on the College of Medicine web site (<http://www.med.ucf.edu/>).

The UCF College of Medicine is building an academic program with an integrated approach to medical education, state-of-the-art technical capabilities, and focused biomedical research. The college will be located at the UCF Health Sciences Campus at Lake Nona, a state-of-the-art complex for medical education, health sciences education, and biomedical research. The 50-acre UCF Health Sciences Campus at Lake Nona is located about 25 miles south of the Orlando campus.

The UCF M.D. program prepares students for careers in every discipline of medicine and allows each student to focus on an individualized area of study or research. The M.D. program learning experience at the University of Central Florida is a unique and exciting blend of state-of-the-art technology, clinical and laboratory experiences, research, facilitator-directed small group sessions, and interactive didactic lectures.

In addition to the new M.D. program, the College of Medicine offers a broad range of educational programs in the Burnett School of Biomedical Sciences including undergraduate degrees in Molecular Biology and Microbiology, Biotechnology, and Medical Laboratory Sciences, master's degrees in Molecular Biology and Microbiology, and Biotechnology, and an interdisciplinary doctor of philosophy degree in Biomedical Sciences.

Burnett School of Biomedical Sciences

Director: P.E. Kolattukudy; BL 136; 407-823-1312; Fax 407-823-0956

Associate Director of Academic Affairs: Roseann White; HPA2 335J; 407-823-5932; Fax 407-823-3095

The Burnett School of Biomedical Sciences in the College of Medicine offers bachelor degrees in Molecular Biology and Microbiology and Biotechnology that prepare students for admission to health profes-

sional or graduate programs. The B.S. in Medical Laboratory Sciences provides training for students to work in clinical or hospital laboratories. The School also offers M.S. programs in Molecular Biology and Microbiology, and Biotechnology. Also, it offers a Ph.D. program in the Biomedical Sciences. The UCF College of Medicine provides the UCF Pre-Health Professions Advising Office, 407-823-2670, to assist in the preparation of applicants for admission to professional schools in health sciences. At this time, the School has over 2,000 undergraduate students and as many as 100 graduate students. Faculty and students are conducting research in cancer, cardiovascular, neurodegenerative, and infectious diseases. The Burnett School of Biomedical Sciences houses the Department of Molecular Biology and Microbiology, the Office of Student Services and Advisement, the Biomolecular Science Center, and the Pre-Health Professions Advisement Office.

Programs and Degrees

Program
Molecular Biology and Microbiology
Biotechnology

Medical Laboratory Sciences
Biomedical Sciences

Degree
B.S., M.S., Minor
B.S., M.S.,
M.S./M.B.A.
B.S.
Ph.D.

Department of Molecular Biology and Microbiology

Chair: P.E. Kolattukudy; BL 136; 407-823-1312

Associate Chair: Roseann White; HPA2, 335J; 407-823-5932

Undergraduate Coordinator: Dorilyn Hitchcock; HPA2 335A; 407-823-5932

Graduate Coordinator: Saleh Naser; BL 221; 407-823-0956

Faculty: R. Ahangari; R. Borgon; E. Bossy-Wetzel; K. Chai; D. Chakrabarti; R. Chakrabarti; S. Chan; J. Cheng; A. Cole; H. Daniell; S. Ebert; C. Fernandez-Valle; M. Fu; R. Gennaro; D. Hitchcock; K. Ireton; A. Khaled; P. Kolattukudy; G. Lopez; W. Lopez-Ojeda; X. Li; S. Moore; M. Muller; S. Naser; W. Safraneck; M. Samsam; W. Self; D. Singla; K. Sugaya; S. Tatulian; K. Teter; J. Turkson; G. Weigel; 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 Bachelor of Science degree in Biotechnology. The Molecular Biology and Microbiology programs prepare students for entry into any professional school in health sciences, such as medicine, veterinary,

pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry. Students seeking admission to such professional programs should follow the Molecular Biology and Microbiology Preprofessional Concentration. The Department's 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 Ph.D. 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 (B.S., M.S.)
Molecular Biology and Microbiology Preprofessional Concentration (B.S.)

Tracks: None

Minors: Molecular Biology and Microbiology

Molecular Biology and Microbiology UCF/USF Accelerated Medical School Program (B.S.)

Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include Florida residency, unweighted minimum 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 University of South Florida 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 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 School 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., M.S., M.S./M.B.A.)

Tracks: None

Minors: None

Program in Medical Laboratory Sciences

Director: Dorilyn Hitchcock; HPA2 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 essential skills to assume leadership roles in management and education. Also, it prepares students in the development of 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, as well as 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 (NAACLS-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 (B.S.)

Tracks: None

Minors: None

Office of Student Services and Advisement (OSSA)

Academic Advisor: Cynthia Contreras; HPA2 336; 407-823-5787;

Academic Advisor: Ana Maria Schwindt; HPA2 337; 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 School of Biomedical Sciences. OSSA assists Molecular Biology and 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 few years, the Center plans to hire approximately 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 biomedical 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 Ph.D. is a major vehicle for training students for biomedical research careers in industry, institutes and universities. In addition, the center intends to help establish new degree programs in cooperation with other academic units to generate a skilled work force 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 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*.

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Medicine are located at: http://oeas.ucf.edu/alc/alc_students_bcbs.htm

COLLEGE OF NURSING

College of Nursing

Dean: Jean Leuner, HPA 220, 407-823-5496

Associate Dean: Linda Hennig, HPA 220, 407-823-4941

Associate Dean: Jean Kijek, HPA 220, 407-823-3079

Faculty: Ahern, Allred, Amidei, Andrews, Ark, Aroian, Blackwell, Bushy, Byers, Covelli, D'Amato-Kubiet, Dennis, Desmarais, Dörner, Draves, Gross, Guimond, Harper, Heglund, Hennig, Hoyt, Hunt, Kijek, , Ladores, Lafferty, LaManna, Landreville, Lange, Leli, Loerzel, Mayer, Morse, Neubauer, Norris, Rash, Ricci, Ruland, 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 embraces 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 offer high quality undergraduate and graduate academic programs designed to prepare nurses to practice in a continuously changing health care environment; to provide innovative access to education and research; to develop nurse clinicians, leaders and scholars who promote the health of diverse populations in local, national and global communities; and to touch lives lead by example and make a difference through clinical excellence, research and community service.

The College of Nursing offers a Bachelor of Science in Nursing (BSN) 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 BSN 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 or diploma in nursing an opportunity to earn a BSN. 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 to BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, Leesburg and Ocala campuses, as well as online.

The goal of the Master of Science in Nursing (MSN) degree 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 graduate work depending on the major. An evidence-based scholarly

project is required. Students 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 Doctor of Nursing Practice (DNP) prepares nurse clinicians and nurse practitioners for leadership roles in specialized areas of advanced practice nursing. This program prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of practice including completion of a residency project during the capstone clinical residency year.

The College of Nursing BSN and MSN programs are accredited by The Commission on Collegiate Nursing Education (CCNE). 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) (DNP)

Tracks: RN to BSN, Basic BSN, Accelerated BSN degree, ASN to BSN Concurrent, 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 Web site: <http://www.nursing.ucf.edu>

Academic Advisement

Office of Undergraduate Student Services

HPA 220, 407-823-2744

The College of Nursing Office of Undergraduate Student Services assists 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 take the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those having academic difficulty. Questions concerning university and college academic policies should be directed through this office.

Programs and Degrees

Major Degree

Nursing BSN, MSN, PhD, DNP

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Nursing are located at: http://oeas.ucf.edu/alc/alc_students_con.htm



CREOL, The College of Optics and Photonics

Dean and Director: Bahaa Saleh; 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 (Center for Research and Education in Optics and Lasers), FPCE (Florida Photonics Center of Excellence), and the Townes Laser Institute (TLI) are research centers within the College, but CREOL predates the College by many years and we are best known internationally under this name. CREOL 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, FPCE, and TLI are the research arms of the College, which offers Masters (MS) and Doctoral (Ph.D.) Degrees in Optics. CREOL has become an internationally recognized institute with 40 faculty members, 69 Ph.D. level research scientists, and 146 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. A portion of the building functions as the UCF Photonics Incubator, an extension of the award-winning UCF Business Incubation Program.

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 laborato-

ries, 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, quantum optics, 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, plus full tuition waivers, 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, with over 60 members, provides industry with benefits of ready access to cutting-edge research and to the expertise and facilities of the College. Faculty members also team with 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
<http://www.cos.ucf.edu>

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 49 baccalaureate, graduate, certificate, 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://undergrad.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 Web site.

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 Science, MS
International & Global Studies	BA, Minor
Interpersonal and Organizational Communication	BA, 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

Department of Anthropology

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, Cowgill, Dupras, Geiger, Howard, Lieberman, Long, Matejowsky, McIntyre, Mishtal, Schultz, Sinnelli, Walker, 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

Department of Biology

Chair: C. Ross Hinkle; BL 301; 407-823-2141
E-mail: biology@ucf.edu
<http://www.cos.ucf.edu/biology/>

Faculty: Bayer, Borst, Calestani, Crampton, Fauth, Fedorka, Harris, Hinkle, Hoffman, Jenkins, Logiudice, Morrison-Sheltar, Nadeau, Noss, , Parkinson, Quigley, Quintana-Ascencio, Roth, Shetlar, Sotero-Esteve, , 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

Department of Chemistry

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

Nicholson School of Communication

Director: Robert Chandler; COM 238; 407-823-2681;
E-mail: communication@ucf.edu
<http://www.cos.ucf.edu/communication>

Faculty: Akita, Bagley, Barfield, Bledsoe, Brown, Brunson, J. Butler, Collins, K. Davis, DeLorme, Dusseau, Graham, Hall, Hanlon, Hastings, Hodgson, Ihde, Katt, Kenney, Kinnally, Lindsley, Major, Malala, Matusitz, McCain, Miller, Musambira, Neel, O'Donnell, Pryor, Rice, Santana, Sheehy, Smith, Sublette, Voss, Weger, M Wagner, Workman, Young

Faculty Emeriti: Fedler, O'Keefe, Taylor, Wycoff

College of Sciences

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 Areas 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 Area 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 Area has computer labs and a digital darkroom. The Advertising/Public Relations Area has a computer writing lab. The Interpersonal/ Organizational Communication Area has a presentational speaking classroom equipped for audio/video record/playback and computerized visual presentation. The Area 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/Organizational Communication, Magazine Journalism, Mass Communication

Department of Mathematics

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: Brennan, Cannon, Capursi, Choudhury, Clarke, Dunlop-Pyle, Dutkay, Dutton, Griffiths, Han, Higgins, Islas, Ismail, Kassab, Katsevich, Kaup, Lee, Li, Martin, Mikusinski, Mohapatra, Moore, Nashed, Nevai, Nicholson, Pensky, Phillips, Qi, Reid, Ren, Richardson, Rollins, Schober, Shivamoggi, Song, Sun, Swanson, 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, Mathematical Economics, Mathematics, Pure Mathematics

Minors: Mathematics

Department of Physics

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, Britt, Brueckner, Campins, Chernyak, Chow, Colwell, Del Barco, Dubey, Efthimiou, Fernandez, Flitsiyan, Harrington, Heinrich, Johnson, Kara, Khondaker, Kokouline, Leuenberger, , Luo, Martin, Montgomery, Mucciolo, Neighbor, Peale, Rahman, Roldan-Cuenya, Saha, Schelling, Schulte, Stolbov, Tonner, Velissaris

Faculty Emeritus: Brennan, Llewellyn

Visiting Faculty: Cooney, Ngwa, Zhmudskyy

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 planetary 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

Department of Political Science

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, Kim, Kinsey, Knuckey, Lanier, Li, Morales, Pollock, Sadri, Schraufnagel, Vittes, 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

Department of Psychology

Chair: R. Dipboye; PSY 301L; 407-823-2216;

E-mail: psychology@ucf.edu

<http://psychology.cos.ucf.edu/>

Associate Chair: T. Hernandez; PSY 301; 407-823-2216

Faculty: Azimi, Bedwell, Beidel, Berman, Brophy, Cassisi, Chin, Cox, DeChurch, Dipboye, M. Dunn, S. Dunn, Fouty, Fritzsche, Ghasinejad, Gilson, Hancock, Hernandez, Hickey, Hitt, Janowsky, Jensen, F. Jentsch, K. Jentsch, M. Kennerley, R. Kennerley, Lavooy, Le, McConnell, McGuire, Mottarella, Mouloua, Murdoch, Negy, Pritchard, Rapport, Renk, Reynoso, Rinalducci, Sager, Salas, Saunders, Shirkey, Simpson, Sims, Smither, Szalma, Wang, Whitten, Wooten

Faculty Emeritus: Abbott, Burroughs, Morgan, 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

Department of Sociology

Chair: J. Corzine; PH 403B; 407-823-3744

<http://sociology.ucf.edu/>

Associate Chair: E. Grauerholz

Faculty: Barrett, Canan, Carter, 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

Department of Statistics and Actuarial Science

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 tracks), Actuarial Science (BS)

Tracks: None

Minors: Statistics

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the College of Sciences are located at: http://www.o eas.ucf.edu/al c/al c_students_cosci.htm

ROSEN COLLEGE OF HOSPITALITY MANAGEMENT

COLLEGES



Rosen College of Hospitality Management

Dean: Abraham Pizam; 9907 Universal Boulevard, Suite 231-H
Orlando, FL 32819; 407-903-8010
<http://www.hospitality.ucf.edu>

Interim Associate Dean: Tadayuki Hara;
9907 Universal Boulevard, Suite 231-A; 407-903-8174

Orlando Campus Academic Advising:
Classroom Building I, 302H; 407-823-1112

Faculty: Ashley, Breiter, Bunn, Chen, Choi, Croes, Dickson, Fisher, Fjelstul, Hara, Hua, Iskat, Jackson, Juge, Jung, Kaufman, Kwun, Logan, Lynch, McDowall, Milman, Muller, Murphy, Naipaul, Nusair, Okumus, Parsa, Ray, Ro, 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 leadership 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 49 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.
- Outstanding faculty from 19 different countries.
- 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)

Tracks: Vacation Ownership Resort Management; Theme Park and Attraction Management; Tourism Management;
Lodging Management; Hospitality Financial Management and Technology; Golf and Club Management

Minor: Hospitality Management

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs in the Rosen College of Hospitality Management are located at: http://oeas.ucf.edu/alrc/alrc_students_rhm.htm

OFFICE OF UNDERGRADUATE STUDIES



Office of Undergraduate Studies

Dean: Alison Morrison-Shetlar; MH 218; 407-823-2373
Associate Dean: Elliot Vittes; MH 210; 407-823-2691
<http://www.undergrad.ucf.edu/>

The Office of Undergraduate Studies supports all colleges and units 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. The units within Undergraduate Studies are the offices of Academic Services, Experiential Learning, Faculty Center for Teaching and Learning, Interdisciplinary Studies, McNair Scholars Program, Research and Mentoring Program (RAMP) and Undergraduate Research. The Dean serves as the final appeal for all undergraduate academic appeals.

Academic Services

Dean: Alison Morrison-Shetlar; MH 218; 407-823-2373
<http://www.academicsservices.ucf.edu/>

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 student, faculty, and staff and to maintain accurate and effective computer records for advisement and graduation.

Bachelor of Applied Science

Dean: Alison Morrison-Shetlar; MH 218; 407-823-2373
<http://www.regionalcampuses.ucf.edu/bas/>

The Bachelor of Applied Science serves all Associate of Science (A.S.) graduates who desire a Bachelor of Science (B.S.) degree for career or personal advancement. The program builds upon the technical or professional skills acquired in the A.S. to develop competencies in management and communication, with emphasis on developing skills in critical thinking, problem solving and decision making. The curriculum consists of core courses in ethics, management and communication, and a concentration chosen by the student.

Experiential Learning

Director: Sheri Dressler, FC - 203; 407-823-2667
<http://www.coop.ucf.edu/>

This office provides co-op, internship and service-learning courses for students in all colleges through collaboration with college faculty and employers locally, nationally and internationally. Department faculty teach co-op and internship courses, facilitate the development and approval of quality experiential learning courses in colleges through faculty professional development and partnerships, develop and maintain productive relationships with employers, and compile student learning outcome data from applied learning courses campus-wide. Our primary goal is to ensure that students have access to, and include experiential learning courses in, their academic programs. These opportunities help students apply course content in real-world settings, reflect on their experiences, and gain relevant professional and academic skills needed to become capable members of the workforce and engaged citizens upon graduation.

Faculty Center for Teaching and Learning

Interim Director: Tace Crouse, CL1-207; 407-823-3544
<http://www.fctl.ucf.edu/>

The Faculty Center provides support for all the roles of faculty - excellence in teaching and learning, successful research and creative activities, professional advancement, and collaborative endeavors - through multiple formats including workshops, events, consulta-

tions, class observations, online resources, publications, and strategic initiatives. This office coordinates the Academic Orientation for new faculty and assists with mentoring for faculty success.

McNair Scholars Program

Director: Michael Aldarondo-Jeffries, CC II 221; 407-823-1818
<http://mcnair.ucf.edu/>

The McNair Scholars Program is a U.S. Department of Education TRIO program which provides an enriching educational experience for students from underrepresented groups and first-generation/low-income students to excel as undergraduates prepare for graduate school and ultimately enter faculty positions. The program works closely with participants through their undergraduate career, encourages their entrance into graduate programs, and tracks their progress to successful completion of advanced degrees. Students participate in research method courses, GRE preparation, faculty-guided research and graduate school visits.

Office of Interdisciplinary Studies

Director: Michael Hampton; Classroom Bldg I, Suite 302; 407-823-0144; E-mail: is@mail.ucf.edu

Program Contact: Interdisciplinary Studies Advising Team
Academic Advisers: Broerman, Logan, Wallace

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 three different tracks from which to choose. There are also three minors and two certificate programs.

Degrees: Interdisciplinary Studies (BA, BS, MA, MS)

Tracks: Interdisciplinary Studies, Environmental Studies, Women's Studies,

Minors: Environmental Studies, World Comparative Studies, Leadership Studies

Certificates: Leadership Studies, Cultural Tourism

Research and Mentoring Program

Director: Michael Aldarondo-Jeffries, CC II 221; 407-823-1818
<http://ramp.ucf.edu/>

The Research and Mentoring Program (RAMP) prepares students for entry into graduate school. Through involvement in research projects and working with faculty mentors, the program provides a supportive educational environment for students. In addition, the students participate in a variety of workshops designed to increase their awareness and knowledge of the graduate application process. Students from underrepresented groups and first-generation/low-income students are strongly encouraged to apply.

Undergraduate Research

Director: Kimberly Schneider, CC II 209; 407-823-3125
<http://www.our.ucf.edu/>

UCF offers numerous opportunities for undergraduates to pursue research in various disciplines with the guidance of a faculty mentor. This intensive research opportunity enhances the academic experience and challenges students to strengthen their critical thinking, analytical, and writing skills. The Office of Undergraduate Research strengthens and unifies the research and education missions of UCF. Examples of programs the office administers are: the undergraduate research showcase, the undergraduate research journal, a workshop series, and a student council.

Program Academic Learning Compacts (student learning outcomes) for undergraduate programs for Undergraduate Studies are located at: http://www.oear.ucf.edu/alc/alc_students_us.htm



UCF DEGREE PROGRAMS

Accounting	English - Technical Communication	Mechanical Engineering
Actuarial Science	Environmental Engineering	Mechanical Engineering - Accelerated Undergraduate-Graduate Program
Advertising/Public Relations	Event Management	Medical Laboratory Sciences
Aerospace Engineering	Exceptional Student Education	Modern Language Combination
Aerospace Engineering - Accelerated Undergraduate-Graduate Program	Film - B.F.A.	Molecular Biology and Microbiology
Anthropology	Film - Cinema Studies Track	Molecular Biology and Microbiology - Preprofessional Concentration
Applied Science - A.S. to B.S. Track	Film - World Cinema Track	Molecular Biology and Microbiology - UCF/USF Accelerated Medical School Program
Art	Finance	Music
Art - History Track	Foreign Language Education - French	Music Education
Art - Studio Track	Foreign Language Education - Spanish	Music - Jazz Studies Track
Art Education	Forensic Science - Analysis Track	Music - Music Composition Track
Biology	Forensic Science - Biochemistry Track	Music - Music Performance Track
Biology - Preprofessional Concentration	French	Nursing
Biotechnology	General Business	Nursing - Accelerated Second Degree B.S.N. Option
Business Administration	General Business - A.S. to B.S. Track	Nursing - A.S. to B.S.N. Track
Cardiopulmonary Sciences	Health Information Management	Nursing - R.N. to B.S.N. Program
Chemistry	Health Sciences - Athletic Training Track	Nursing - R.N. to M.S.N. Option
Civil Engineering	Health Sciences - Pre-Clinical Track	Nursing - SCC/UCF A.S.N. to B.S.N. enrollment option
Communication Sciences and Disorders	Health Services Administration	Philosophy
Communication Sciences and Disorders - Accelerated Undergraduate-Graduate Program	History - Accelerated Undergraduate-Graduate Program	Photography
Computer Engineering	Hospitality Management	Physics
Computer Engineering - Accelerated Undergraduate-Graduate Program	Hospitality Management - A.S. to B.S. Track	Political Science
Computer Science	Humanities	Political Science - Prelaw Track
Computer Science - Accelerated Undergraduate-Graduate Program	Humanities - Philosophy, Religion, & Popular Culture Track	Psychology
Construction Engineering	Industrial Engineering	Public Administration
Criminal Justice	Industrial Engineering - Accelerated Undergraduate-Graduate Program	Radio - Television
Criminal Justice - A.S. to B.S. Track	Information Systems Technology	Radiologic Sciences
Digital Media	Information Systems Technology - A.S. to B.S. Track	Radiologic Sciences - A.S. to B.S. Track
Early Childhood Education	Information Technology	Real Estate
Economics	Interdisciplinary Studies	Religious Studies
Economics, Business	Interdisciplinary Studies - Environmental Studies Track	Restaurant and Foodservice Management
Economics - Accelerated Undergraduate-Graduate Program	Interdisciplinary Studies - Women's Studies Track	Science Education - Biology
Electrical Engineering	International and Global Studies	Science Education - Chemistry
Electrical Engineering - Accelerated Undergraduate-Graduate Program	Interpersonal/Organizational Communication	Science Education - Physics
Electrical Engineering Technology - A.S. to B.S.E.E.T. Concentration	Journalism	Social Science Education
Electrical Engineering Technology - Electrical Systems Concentration	Legal Studies	Social Sciences
Elementary Education	Liberal Studies (See Interdisciplinary Studies)	Social Work
Engineering Technology - Design Concentration	Management	Sociology
Engineering Technology - Operations Concentration	Management Information Systems	Spanish
English - Creative Writing	Marketing	Sports and Fitness
English Language Arts Education	Mathematics - Applied Track	Statistics
English - Literature	Mathematics - Computational Track	Technical Education and Industry Training
	Mathematics - Engineering/Physics Track	Theatre
	Mathematics - Mathematical Economics Track	Theatre - Musical Theatre Track
	Mathematics - Pure Track	Theatre Studies
	Mathematics Education	

UCF DEGREE PROGRAMS

ACCOUNTING (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

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

Not eligible for a double degree with another College of Business Administration major

Admission Requirements

- Completion of the General Education program, and Gordon Rule, or an AA Degree from 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	9 hrs
Preferred: SPC 1608	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1140 Pre-Calculus	3 hrs
Select CGS 2100C Computer Fundamentals for Business	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics	3 hrs
or ECO 2023 Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites

Must be completed with a "C" (2.0) or better

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Macroeconomics
ECO 2023	Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100C	Computer Fundamentals for Business

*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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes

(36 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3375	Introduction to International Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403C	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011C	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

- Must complete all Gordon Rule requirements, prior to admission to this degree.
- Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411 count towards this 60 hour requirement).
- 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 re-admittance 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. Required courses for major

(24 hrs)

ACG 3131	Financial Accounting Concepts and Analysis	3 hrs
ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3361	Intermediate Managerial 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 4803	Contemporary Issues in Accounting	3 hrs
TAX 4001	Taxation of Business Entities and Transactions	3 hrs

6. 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.

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	or	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.

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.

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

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 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/accounting/>

Community/Junior College Transfer Notes

- 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.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Courses taken at community colleges do not substitute for upper division courses.
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$30 per term
- Part-time Student \$15 per term

SUGGESTED FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
MAC 1105*	3	Art/Music/Lit	3
Psy/Syg/Ant Science	3	CGS 2100C*	3
		Science	3
Sophomore			
1st Term	15 hrs	2nd Term	16 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
SPC 1608	3	POS 2041	3
***Elective	3	MAR 3023	4
***Elective	3	ECO 3401*	3

Junior

1st Term	15 hrs	2nd Term	14hrs
GEB 3031	4	ISM 3011C	4
ECO 3411	4	**ACG 3361	3
MAN 3025	4	**BUL 3130	4
**ACG 3131	3	**ACG 3141	3

Senior

1st Term	13 hrs	2nd Term	17 hrs
**TAX 4001	3	MAN 4720	4
**ACG 4401C	3	GEB 3375	4
FIN 3403C	4	**ACG 4651	3
**ACG 3501	3	**ACG 4803	3
		***Elective	3

*"C" (2.0) or better grade required in each class

**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 and Actuarial Science 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 Anal Geo I	GEP
MAC 2312	Calculus with Anal Geo II	4 hrs
MAC 2313	Calculus with Anal Geo III	4 hrs

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements

(53 hrs)

ACG 2021	Princ Financial Accounting	3 hrs
ACG 2071	Princ Managerial Accounting	3 hrs
FIN 3403C	Business Finance	3 hrs
STA 2023	Statistical Methods I	GEP

UCF Degree Programs

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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

Take Math Placement Test - <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall	Spring	
ECO 2013 Prin of Microeco	3 ENC 1102 Composition II	3
ENC 1101 Composition I	3 ECO 2023 Prin of Microeco	3
MAC 2311 Calc Analytic Geo I	4 MAC 2312 Calc Analytic 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 2071 Prin of Mangr Acc	3
PHY 2053C* req# 1E1-GEP	4 EUH 2001* req# 1B1-GEP	3
MAC 2313 Calc Analytic Geo III	4 PHI 2010* req# 1B3-GEP	3
ACG 2021 Prin of Fin Acc	3 ENC 3241 Wr the Tech Pof	3
STA 4321 Stat Theory I	3 STA 4322 Stat Theory II	3

Junior Year

Fall	Spring	
FIN 3403C 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

ADVERTISING/PUBLIC RELATIONS (B.A.)

College of Sciences

Nicholson School of Communication

COMM 250, 407-823-2852

<http://communication.cos.ucf.edu/undergraduate/degrees/advertising.php>

Contact: Joan McCain, E-mail: jmccain@mail.ucf.edu

Admission Requirements

Limited Access

- 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, with GPA being a major component.
- Satisfactorily complete a minimum of 45 credit hours of college work.
- The GPA will be calculated based on all college work attempted.
- The GPA cut-off for admission varies each semester, depending on the applicants, but for previous acceptance periods, the minimum GPA did not drop below 3.4.
- 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 1608 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Prefer MGF 1106 *or* MGF 1107 (may substitute a higher level math) 3 hrs
 - Select STA 2014C 3 hrs
- D. Social Foundations
 - Select ECO 2013 *or* ECO 2023 3 hrs
 - Select ANT 2000, PSY 2012, *or* SYG 2000 3 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (0 hrs)

- SPC 1608 Fund Oral Communication
- Select one course
 - ECO 2013 Principles of Macroeconomics *or*
 - ECO 2023 Principles of Microeconomics

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements (27 hrs)

- a. Complete before applying to the program
 - SPC 1608 Fund Oral Communication CPP
 - ECO 2013 Principles of Macroeconomics *or* CPP
 - ECO 2023 Principles of Microeconomics
 - ADV 3008 Principles of Advertising 3 hrs
 - PUR 4000 Public Relations 3 hrs
 - STA 2014C Principles of Statistics GEP
- b. Taken once admitted into the program
 - 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
 - Select one 3 hrs
 - PUR 4941 Internship
 - ADV 4941 Internship

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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$44 per term
- Part-time Student \$22 per term

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
MGF 1106 <i>or</i> MGF 1107	STA 2014C Prin of Statistics	3
Elective* Check restrictions	Elective* Check restrictions	3
Lang/Elect	Elective* Check restrictions	3
	Lang/Elect	4

Sophomore Year

Fall	Spring	
GEP	GEP	3
GEP	GEP	3
ECO 2013 <i>or</i> ECO 2023	GEP	3
SPC 1608 Fund Oral	ADV 3008 Prin Advertising	3
PUR 4000 Public Relations	GEP	3
	Application See catalog	0

Junior Year

Fall	Spring	
Restricted Elect	COM 3110 Bus Prof Com	3
Restricted Elect	COM 3311 Com Res Methods	3
Restricted Elect	MMC 3200 Mass Com Law	3
Restricted Elect	Restricted Elect	3
Restricted Elect	PUR 4941 <i>or</i> ADV 4941	3

Senior Year

Fall	Spring	
ADV 4101 Ad Copywriting	MMC 4411 Ad/Pr campaigns	3
PUR 3100 Wr for Pub Reltn	PUR 4941 <i>or</i> ADV 4941	3
Graduation Review	0 Restricted Elect	0
Restricted Elect	4 Restricted Elect	3
Restricted Elect	3 Restricted Elect	3
Restricted Elect	3	3

UCF Degree Programs

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:

1. UCF General Education Program for Engineering Students none (36+2 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in the 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 1603 | |
| 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 and MAC 1140) | |
| 2. Select STA 3032 (PR: MAC 2312) | |
| D. Social Foundations | 6 hrs |
| 1. Take Prefer ECO 2013 or ECO 2023. | |
| 2. Take ANT 2000, PSY 2012, or 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, 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 or Social Sciences	GEP

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Career and Academic advisement

The department requires all students in the program meet with a faculty member for advising on career and academic issues. These courses must be taken in sequence during the 3rd and 4th year.

EAS 3990	Aerospace Career/Academic Advisement I	0 hr
EAS 4991	Aerospace Career/Academic Advisement II	0 hr

4. Courses Required for the Major (56 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 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
EGN 3343	Thermodynamics	3 hrs
EMA 3706	Structure & Properties of Aerospace Materials	3 hrs
EGN 3373	Principles of Electrical Engineering	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	3 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
or EAS 4505	Orbital Mechanics	
EAS 4300	Aerothermodynamics-Propulsion Sys	3 hrs
EML 3034C	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

5. Approved Technical Electives (9 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.

6. 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
- or** EGN 4412C Interdisciplinary Design I
- EAS 4710C Aerospace Design II 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 (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

Related Minors: 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. However, students may take EGN 1007C in the Spring semester if they do not have knowledge of Mathcad or Matlab.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

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
or 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 1603 Tech Presentations	3
Summer	10 hrs ^{1, 3}		
*MAC 2313 Calculus III	4		
EMA 3706 Struct & Prop of	3		
Aerospace Mat'l			
*Social Foundations	3		

SECOND YEAR

Fall	13 hrs ¹	Spring	12 hrs
STA 3032 Prob & Stats/Engrs	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 or Micro	3		
*Historical Foundations	3		
*Historical Foundations	3		

THIRD YEAR

Fall	15 hrs	Spring	15 hrs ²
EML 3034C Model Meth's MMAE	3	EAS 3101 Fund of Aerodyn	3
EAS 3010 Fund of AE Flight	3	EAS 3810C Dsgn AE Exp	3
EAS 3800C Aerosp Eng Msr	3	EAS 4210 Space Struct Dyn	3
Science Foundation	3	EAS 4505 Orbital Mechncs	3
EAS 4200 Flight Structures	3	or EAS 3530 Space Sys Concepts	
EAS 3990 AE Career/Acad Adv I	0	Approved technical elective	3

FOURTH YEAR

Fall	12 hrs	Spring	15 hrs ²
EML 4312C Feedback Control	3	EAS 4300 Aerothrm Prop Sys	3
EAS 4105 Flight Mechanics	3	EAS 4710C Aerosp Design II	3
EAS 4134 High-Spd Aerodyn	3	or EGN 4413C Interdiscipl Design II	
EAS 4700C Aerosp Design I	3	Cultural Foundations	3
or EGN 4412C Interdiscipl Design I		Approved technical elective	3
EAS 4991 AE Career/Acad Adv II	0	Approved technical 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 the Catalog for further information.
2. Students should view the MMAE Web site (<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.
3. 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 the Catalog.
4. 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.
- 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 the Catalog for more information.

ANTHROPOLOGY (B.A.)

College of Sciences

Department of Anthropology, PH 309, 407-823-2227

<http://www.cos.ucf.edu/anthropology>

E-mail: ezorn@mail.ucf.edu

Contact: Elayne Zorn; 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
 - 1. Prefer MGF 1106 or MGF 1107 (may substitute a higher level math) 3 hrs
 - 2. Select from GEP C.2 list 3 hrs
- 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements: Lower Level

(6 hrs)

- ANT 2000 General Anthropology GEP
- ANT 2511 The Human Species GEP
- 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 3160 Pre-Contact Americas
- ANT 3161 Archaeology of Mexico
- ANT 3163 Mesoamerican Archaeology
- ANT 3164 Ancient Incas
- ANT 3165 Archaeology of South America
- ANT 3168 Maya Archaeology (or ANG 6168)
- ANT 3311 Indians of the SE US
- ANT 3312 Ethnology of North American Indians

UCF Degree Programs

ANT 3313	Indians of N American High Plains
ANT 3314	Indians of the Northeast Woodlands
ANT 3318	Indians of the Northwest Coast
ANT 3319	The Anthropology of Diaspora
ANT 3320	Indians of the Southwest
ANT 4332	Peoples and Culture of Latin America (<i>or</i> ANG 5307)
ANT 4340	Caribbean Cultures (<i>or</i> ANG 5341)
ANT 3344	Puerto Rican Culture
ANT 3358	Life and Death in Ancient Egypt
ANT 3362	Peoples of Southeast Asia
ANT 3363	Anthropology of Japan
ANT 4144	Prehistory of North America
ANT 4153	North American Archaeology
ANT 4308	Gender Issues in Latin America
ANT 4352	African Societies and Cultures
ANT 4354	Postcolonial Africa

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 3106	Archaeology and Popular Culture
ANT 3115	Archaeological Method and Theory
ANT 3142	Old World Prehistory
ANT 3173	Archaeology of Sex
ANT 3177	Archaeology of Caribbean Piracy
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 3330	Cultural Ecology of Amazonia
ANT 3393	American Indian Literature and Culture in Florida
ANT 3450	Living in the USA: Anthropological Perspectives
ANT 3541	Biobehavioral Anthropology
ANT 3550	Primatology
ANT 3701	Applied Anthropology
ANT 3949	Cooperative Education in Anthropology
ANT 4013	Anthropological Perspectives on Fast Food
ANT 4101	Archaeological Sciences (<i>or</i> ANG 5100)
ANT 4180C	Seminar in Laboratory Analysis
ANT 4184	Mortuary Archaeology (<i>or</i> ANG 5741)
ANT 4266	Economic Anthropology
ANT 4308	Gender Issues in Latin America
ANT 4438	Anthropology of Tourism (<i>or</i> ANG 5437)
ANT 4462	Medical Anthropology
ANT 4467	Nutritional Anthropology (<i>or</i> ANG 5467)
ANT 4408	Culture, Disease, and Healing
ANT 4516	Human Biological Diversity
ANT 4521C	Forensic Anthropology
ANT 4525C	Human Osteology
ANT 4528C	Advanced Forensic Anthropology
ANT 4560	Anthropological Perspectives on Human Growth
ANT 4702	Culture, Power, and Development (<i>or</i> ANG 5272)
ANT 4802	Ethnographic Field Methods
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

7. 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, or three semesters equivalent of American Sign Language. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

Select primarily from upper level research 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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
MGF 110X* req# 1C1-GEP	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 of the	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 1120C* req# Lang/Elect	4 SPN 1121C* 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, see description of this program in the Statewide Articulated 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/>

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 Animation and 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 mandatory Graphic Design Portfolio Review for admission to this restricted access program, to be admitted in the following Fall. The portfolio application deadline is the first week of March for Fall admission.
- 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.
- Animation 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, to qualify for the Animation Specialization.
- Animation students must submit a satisfactory drawing portfolio to be admitted to FIL 3720C.
- Students unable to satisfactorily complete either above requirement, ART 3950 - Portfolio Review, Animation 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 Animation or Graphic Design programs.

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.
- Grades below "C" (2.0) in lower level ART or ARH courses do not satisfy major requirements.
- 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 *or* 1107 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 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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)

Animation (ART 3643C, FIL 3720C, FIL 3734C, FIL 3041, FIL 4735C, FIL 4750C*)

Book Arts (ART 3176C, ART 3175C, ART 3170C, ART 3171C, ART 3737C, ART 4172C, ART 4644C, ART 4177C, ART 4173C, ART 4174C)

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. Electives 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.

or

For Animation specialization:

- Any two upper level Art History or Film History courses 6 hrs
- & ART 4971 Thesis 3 hrs

(A maximum of six hours of Independent Study, Practicum, and Internship are permitted).

UCF Degree Programs

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

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$63 per term
- Part-time Student \$31.50 per term

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 3720C* req# 4b. ResEI	3
GRA 3151C* req# 4a. Spec	3 ARH 4800* req# 4c. ResEI2	3
SPN 1120C* req# Lang/Elect	4 SPN 1121C* 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 - HISTORY TRACK (B.A.)

College of Arts and Humanities

Art Department, VAB 117, 407-823-2676

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

Contact: M. Zaho, 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.

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 or MGF 1107 (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 (6 hrs)

ART 2201C	Design Fundamentals 2-D	3 hrs
ART 2300C	Drawing Fundamentals I	3 hrs
ARH 2050	History of Western Art I	GEP
ARH 2051	History of Western Art II	GEP

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 (24 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 4130 Greek Art and Architecture	
c. Select 18 additional hours from following:	18 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 4350 Baroque Art	
ARH 4655 MesoAmerican Art	
ARH 4892 Women in Art	
ARH 5897 Adv. Seminar in Art History	
ARH 4150 Roman Art and Architecture	
ARH 4200 Medieval Art	
ARH 4352 Italian Baroque Art	
ARH 3728 History of Illustration	
ARH 3XXX-4XXX Additional Art History course	

5. Departmental Exit Requirements

- 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 three 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

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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$63 per term
- Part-time Student\$31.50 per term

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 Non-West Art	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 1120C* 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 1121C* req# Lang/Elect	4	SPN 2200* req# Lang/Elect	3

Senior Year

Fall		Spring	
ARH 4350* req# 4b-ResEl	3	ARH 4XXX req# 4c-ResEl	3
ARH 4XXX	3	ARH 4XXX	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

ART - STUDIO TRACK (B.A.)

College of Arts and Humanities

Art Department, VAB 117, 407-823-2676

<http://www.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 and Animation 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" (2.0) in lower level ART and ARH 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 or MGF 1107 (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 (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 or media course	3 hrs

UCF Degree Programs

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 Specialization: (27 hrs)

Select nine upper division courses from at least three areas:

Art History (any upper level ARH courses)
 Book Arts (ART 3176C, ART 3175C, ART 3170C, ART 3171C, ART 3737C, ART 4172C, ART 4644C, ART 4177C, ART 4173C, ART 4174C)
 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*)
 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
- 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

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 taken 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$63 per term
- Part-time Student \$31.50 per term

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 3332C* req# 4-ResElect	3 ART 3161* req# 2-CPP	3
GRA 3151C* req# 4-ResElect	3 ART 4320C* req# 4-ResElect	3
Elective* Check restrictions	1 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3
SPN 1120C* req# Lang/Elect	4 SPN 1121C* req# Lang/Elect	4

Senior Year

Fall	Spring	
ARH 4350* req# 4-ResElect	3 ARH 4430* req# 4-ResElect	3
ART 4320C* req# 4-ResElect	3 GRA 4154C* req# 4-ResElect	3
PGY 3410C* req# 4-ResElect	3 PGY 4420C* req# 4-ResElect	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

ART EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://education.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.
- Meet the Foreign Language Admission 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* (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 1608 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 or MGF 1107	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 strongly advised to take the preferred courses.

- 2. Education Common Program Prerequisites (9 hrs)**
 EDF 2005 Introduction to the Teaching Profession 3 hrs
 EDF 2085 Introduction to Diversity for Educators 3 hrs
 EME 2040 Introduction to Technology for Educators 3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

- 3. Other Program Prerequisites (30 hrs)**
 *ARH 2050 History of Western Art I 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 (15 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
 RED 4043 Content Reading K-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 required 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.education.ucf.edu/clinicalexp/>.

- 5. Internship I (3 hrs)**
 ARE 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.education.ucf.edu/clinicalexp/>.

- 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 (12 hrs)**
 ARE 4941 Internship II K-12 12 hrs

- 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 126 hrs**
 Consult with your Education advisor and review your degree audit for more recent information.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

13. Recommended Four Year Sequence of Course

The program of study will be affected by course offerings and availability. Please see the Art Education Web site at <http://education.ucf.edu/arted/> for the advising policy.

Freshman Year

Fall	15 hrs	Spring	12 hrs
EDF 2005 Intro to the Teaching Prof	3	ARH 2051 History of Western Art II	3
ENC 1101 English Composition I	3	EDF 2085 Intro to Diversity for Ed	3
MGF 1106 Finite Mathematics	3	ENC 1102 English Composition II	3
ARH 2050 The History of Western Art I	3	ART 2201C Designs Fund I	3
PSY 2012 General Psychology	3		
Summer	6 hrs		
EME 2040 Intro to Tech for Educators	3		
SPC 1608 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 Drawing Fund I	3
STA 2014C Principles of Statistics <i>or</i>	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	ARE 4250 Art for Exceptionalities	3
TSL 4080 Theory & Prac of Teach ESOL Students in Schools	3	Restricted electives (Any ARE/ARH/ART/PGY 3/4XXX with Advisor approval)	3
Summer	6 hrs		
ART 2754C Ceramics	3		
Restricted elective	3		
(Any ARE/ARH/ART/PGY 3/4XXX with Advisor approval)			

UCF Degree Programs

Senior Year	12 hrs	Spring	12 hrs
Fall			
ARE 4351 Teach Art in the Elem Sch	3	ARE 4941 Intern II	12
EDF 4603 Anal & Appl of Eth, Legal, & Safety Issues in Sch	3		
Restricted electives (Any ARE/ARH/ART/PGY 3/4XXX with Advisor approval)	3		
ARE 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.
- Upon reaching junior standing Biology majors are expected to have completed the following courses: BSC 2010C, BSC 2011C, CHM 2045C, CHM 2046, CHM 2210, CHM 2211, and associated Chemistry laboratories. These classes are prerequisites for advanced science classes and students entering without these classes will be unable to register for most of the advanced courses.
- 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 1603 | 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 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 |
| MAC 2311* | Calculus w/ Analy Geometry I | GEP |
| 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 | |
| or | | |
| 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements

(21-22 hrs)

- | | |
|-------------------------------|--------------------------------|
| Select one Chemistry sequence | |
| CHM 2210 | Organic Chem. I and |
| CHM 2211&L | Organic Chem. II & Lab |
| or | |
| CHM 3120&L | Analytical Chemistry & Lab and |
| CHM 2205 | Intro Organic & Biochemistry |
| PCB 3044 | Principles of Ecology |
| PCB 3063 | Genetics |
| PCB 3023 | Molecular Cell Biology |
| PCB 4683 | Evolutionary Biology |

(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 the undergraduate program coordinator, 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 3024L* | Molecular Cell Biology Laboratory | 2 hrs |
| PCB 3063L* | Genetics Laboratory | 1 hr |
| PCB 3233 | Immunology | 3 hrs |
| PCB 3703C | Human Physiology | 4 hrs |
| PCB 4514* | Genetics II | 3 hrs |
| PCB 4524 | Molecular Biology II | 3 hrs |
| PCB 4683L* | Evolutionary Biology Lab | 1 hr |
| a PCB 4723* | Animal Physiology | 4 hrs |
| PCB 5665C* | Human Genetics | 4 hrs |
| PCB 5935* | Population 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 3018C* | Culinary Ethnobotany | 3 hrs |
| b BOT 3152C* | Local Flora | 3 hrs |
| b BOT 3800* | Ethnobotany | 3 hrs |
| b BOT 4156C* | Florida Wildflowers | 4 hrs |
| b BOT 4686C* | Conserv & Mgt. of Native Plants | 4 hrs |
| BSC 5937* | Invasion Biology | 3 hrs |
| BSC 4312C* | Marine Biology | 4 hrs |
| BSC 5258L* | Tropical Bio Research & Conservation | 3 hrs |
| a BSC 5821* | Biogeography | 4 hrs |
| a PAZ 5235* | Zoo & Aquarium Mgt. | 3 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 5326C* | Ecosystems of Florida | 5 hrs |
| PCB 5435C* | Marine Ecology of Florida | 4 hrs |
| PCB 5485* | Models in Ecology | 3 hrs |
| a ZOO 4513* | Animal Behavior | 3 hrs |
| a ZOO 5520* | Behavioral Ecology | 3 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 4004C* | General Entomology | 4 hrs |
| a ENY 5006C* | Entomology | 4 hrs |
| MCB 3020C | General Microbiology | 5 hrs |
| a ZOO 4205C* | Bio & Ecol of Metazoan Inverts | 4 hrs |
| a ZOO 4310C* | Vertebrate Evolution & Ecology | 4 hrs |
| a ZOO 5456C* | Ichthyology | 4 hrs |

a	ZOO 5463C*	Herpetology	4 hrs
a	ZOO 5475L*	Field Ornithology	3 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 undergraduate program coordinator 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 are discouraged from taking courses as a transient student at a community college, except in situations where one semester of a two semester sequence has already been taken at the 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 by the undergraduate program coordinator. 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 **or** MAC 2241
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$38 per term
- Part-time Student\$19 per term

Suggested Plan of Study:

This is one of numerous possible plans of study. See program description for all requirements. Courses designated by an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Take Chemistry Placement Test ~ <http://chemplacement.sdes.ucf.edu/>

Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall	Spring	
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

Fall	Spring	
MAC 2311 Calc Analytic Geo I	4 SPC 1603 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-ResEI	5
PCB 3044 Prin of Ecology	3 Elective* Check restrictions	3

Junior Year

Fall	Spring	
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 ResEI	5 BSC 4312C* req# 4.2 ResEI	4
Elective* Check restrictions	3 Elective* Check restrictions	3

Senior Year

Fall	Spring	
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 ResEI	1
PCB 4683 Evolutionary Biology	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

The Biology major offers excellent preparation for professional school. The curriculum is broadly based and provides a well-rounded education that is appealing to admission committees and valuable for careers in medicine, dentistry, optometry, pharmacy and veterinary medicine.

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.

UCF Degree Programs

- Upon reaching junior standing, Biology students are expected to have completed the following courses: BSC 2010C, BSC 2011C, CHM 2045C, CHM 2046, CHM 2210, CHM 2211 and associated Chemistry laboratories. These classes are prerequisites for advanced science classes and students entering without these classes will be unable to register for most of the advanced courses.
- 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 1603	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 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
MAC 2311*	Calculus w/Analytic Geometry I	GEP
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	
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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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	Evolutionary Biology	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 the undergraduate program coordinator, 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
a ZOO 4753C	Vertebrate Histology	4 hrs

4.2 Environmental (minimum of one lecture course)

b BOT 3800*	Ethnobotany	3 hrs
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4.3 Systematic (minimum of one lecture course)

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 are discouraged from taking courses as a transient student at a community college, except in situations where one semester of a two semester sequence has already been taken at the 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 by the undergraduate program coordinator 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 or MAC 2241
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$38 per term
- Part-time Student \$19 per term

Suggested Plan of Study:

This is one of numerous possible plans of study. See program description for all requirements. Courses designated by an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Take Chemistry Placement Test ~ <http://chemplacement.sdes.ucf.edu/>

Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

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 Analytic Geo I	4 SPC 1603 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 Analytic 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 4683 Evolutionary Biology	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 4723* req# 4.1-ResE-a	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

A Note on Preparing for the MCAT Examination

An analysis of the success and failure of students on recent MCAT examinations has led the department to suggest that a student should have completed all of the Biology core courses, MCB 3020C, and PCB 4524 prior to taking the MCAT exam

BIOTECHNOLOGY (B.S.)

College of Medicine
Burnett School of Biomedical Sciences
Department of Molecular Biology and Microbiology
HPA2 335, 407-823-5932

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

Chair: P.E. Kolattukudy

Program Director: Henry Daniell, E-mail: daniell@mail.ucf.edu

The B.S. Biotechnology produces highly trained workers that will meet the workforce needs of the biotechnology industry. Students seeking admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) meet most of the admission requirements for those programs while obtaining a Biotechnology B.S. 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.
- 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.

1. UCF General Education Program

(36+2-3 hrs)

A. Communication Foundations	
Select ENC 1101, ENC 1102	6 hrs
Prefer SPC 1603 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
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
STA 2023	Statistics	GEP

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(52 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 4721C	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 Bio-imaging Science	3 hrs
Chemistry		
CHM 2046L	General Chemistry II Lab	1 hrs
CHM 2211L	Organic Laboratory Techniques II	2 hrs
BCH 4053	Biochemistry I	3 hrs
Physics		
PHY 2053C, 2054C	College Physics I, II	8 hrs
<i>or</i> 2048, 2049C		
Math		
MAC 2311	<i>or</i> MAC 2253	GEP

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. Students must complete 3 credits of MCB 4912 or MCB 4970H 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
MCB 3404	Bacterial Genetics and Physiology	3 hrs
MCB 4203	Infectious Processes	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 5225	Molecular Biology of Disease	3 hrs
MCB 5505	Molecular Virology	3 hrs
MCB 5654	Applied Microbiology	3 hrs
MCB 5932	Current Topics in Molecular Biology	3 hrs
PCB 3063	Genetics	3 hrs
PCB 3703C	Human Physiology	4 hrs
PCB 4251	Tissue Engineering	3 hrs
PCB 4805	Endocrinology	3 hrs
PCB 5238	Immunopathology	3 hrs
PCB 5275	Signal Transduction	3 hrs
PCB 5239	Tumor Biology	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.

5. Departmental Exit Requirements

To be eligible for a degree 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 Prerequisites, Core and Restricted Electives.

UCF Degree Programs

- 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 are 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, Molecular Biology and Microbiology, Medical Lab Science

Related Minors: Biology, Chemistry, Molecular Biology and Microbiology

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.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- BSC 2011C*: may be substituted by BSC 3403C
- CHM 2045C*: may be substituted by CHM 2040, 2041

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).

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$78 per term
- Part-time Student\$39 per term

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 or SYG 2000	3	SPC 1603	3
or 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* or MAC 2253	4/3	STA 2023 or CGS 1060C	3
EUH 2000 or AMH 2010		BSC 3403C	4
or WOH 2012 or HUM 2210	3	EUH 2001 or AMH 2020	3
		or HUM 2230 or 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 or POS 2041	3	PCB 4239 + PCB 3233L	4
PHY 2053C or PHY 2048*	4	PHY 2054C*	4
and 2048L		or 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 4721C	4	PCB 4174	3
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

Senior Year			
Fall	13/14 hrs	Spring	13 hrs
MCB 4414	3	PCB 4524	3
MCB 4721C	4	PCB 4239, 3233L	3/1
MCB 4312	3	PCB 4529	3
Elective 3000 level	3/4	PCB 4174	3

BUSINESS

See General Business

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, Valencia West, Palm Bay, Sanford/Lake Mary, and South Lake, Osceola and Ocala).

College of Business Administration

Regional Campuses Administrative Offices,

407-823-4547

12201 Research Parkway, Suite 101

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

Not eligible for a double degree with another College of Business Administration major

Regional Campus Director of Advising: Helen Hill, 407-823-1509, hhill@mail.ucf.edu

Cocoa campus advising: Angelia Jones, 321-433-7889; **Clermont/Ocala campus advising:** Selena Forrester, 352-536-2174; **Daytona campus advising:** Christine Davis, 386-506-4021; **Valencia West/Osceola campus advising:** Caroline Obexer, 407-582-5500

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, Gordon Rule, 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
Preferred: SPC 1608
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MAC 1140 Pre-Calculus 3 hrs
 - Select STA 2023 Principles of Statistics 3 hrs
- D. Social Foundations
 - Select ECO 2013 Macroeconomics *or* 3 hrs
 - 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 2100C 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes (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 3375 Introduction to International Business 4 hrs
- BUL 3130 Legal & Ethical Environments of Business 4 hrs
- ECO 3411 Quantitative Business Tools II 4 hrs
- FIN 3403C Business Finance 4 hrs
- MAN 3025 Management of Organizations 4 hrs
- ISM 3011C Essentials of Management Information Systems 4 hrs
- MAR 3023 Marketing 4 hrs

Last Semester:

- MAN 4720 Strategic Management 4 hrs

4. Area of Specialization (18 hrs min)

Existing non-business 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$30 per term
- Part-time Student \$15 per term

CARDIOPULMONARY SCIENCES (B.S.)

College of Health and Public Affairs

Department of Health Professions

HPA2 210, 407-823-2214

<http://www.cohpa.ucf.edu/health.pro/>

Undergraduate Program Director: Steve Shideler;

E-mail: cardioinfo@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 March 1st of the year admission is sought.
- Application to the University must also be submitted by the program deadline of March 1st. Acceptance to UCF is necessary before acceptance to the Cardiopulmonary Sciences program can occur.

UCF Degree Programs

- 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.
- Once application is complete, including supporting documentation, students will be notified for a personal interview with program faculty.
- 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 BCLS (advanced CPR) course offered by American Heart Association (AHA) or AHA approved provider of BCLS training specifically designed for health care providers prior to their admission to the limited access cardiopulmonary sciences 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 only 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.

Limited-Access Program: A total of 20 UCF undergraduate students are admitted each fall semester for the limited access Cardiopulmonary Sciences program.

RRT-Transfer Option Program: Registered Respiratory Therapists (RRT's) applying for the RRT-Transfer Option Program 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 Limited Access Cardiopulmonary Sciences class. For more information, please see below: "RRT-Transfer Option Program."

Degree Requirements

- Students who are pending Cardiopulmonary Sciences and are admitted to the program must adopt the most current catalog
- Students should complete the UCF General Education, Foreign Language, CLAST, 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+2 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	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	8 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 <i>or</i> higher level (with lab)	GEP
PHY 2053C	College Physics or higher level (with lab)	4 hrs

*See Transfer Notes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(72 hrs)

RET 3026C	Intro. to Respiratory Care	4 hrs
RET 3484C	Cardiopulmonary Physiology	4 hrs
HSC 4555	Pathophysiologic Mechanisms	3 hrs
HSC 4158	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 4159	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.

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

RRT-Transfer Option Program:

The UCF Cardiopulmonary Sciences program maintains an active RRT-Transfer Option 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. For an application and information regarding the curriculum, please contact: cardioinfo@mail.ucf.edu.

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 1053/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 1010/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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$50 per term
- Part-time Student \$25 per term

Tentative Course Schedule for Entering Freshmen

Freshman Year			
Fall	16	Spring	16
ENC 1101	3	ENC 1102	3
HSC 2000	2	MAC 1114	3
BSC 2010C	4	MCB 2004C	4
CHM1032 and lab	3/1	EUH 2000 or HUM 2210	3
MAC 1105	3	or AMH 2010	
		PSY 2012 or ANT 2000 or	3
		SYG 2000	
Sophomore Year			
Fall	14	Spring	13
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1608	3
EUH 2001 or HUM	3	ECO 2013 or POS 2041	3
2230 or AMH 2020		One course: ARH 2050	3
STA 2023	3	ARH 2051, MUL 2010,	
		THE 2000, REL 2300, PHI 2010,	
		LIT 2110, LIT 2120	
Junior Year			
Fall	16	Spring	17
RET 3026C	4	RET 4503	3
Upper division elective	3	RET 4244	3
HSC 4555	3	RET 3174	3
HSC 4158	2	RET 3483C	3
RET 3484C	4	HSC 4159	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 the National Board for Respiratory Care (NBRC) and obtain licensure by the State of Florida.

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care (CoARC) 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: Pedro Patino

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
- AA transfer students are expected to have completed the following courses before enrolling as a Chemistry major; CHM 2045C, CHM 2046&L, CHM 2210, CHM 2211, MAC 2311, MAC 2312, PHY 2048 &L, and PHY 2049&L. These classes are prerequisites for advanced science classes and students entering without these classes will be unable to register for most of the advanced courses
- Chemistry majors are discouraged from taking courses as a transient student at a community college, except in situations where one semester of a two semester sequence has already been taken at the community college
- 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 1603 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/ Analytic Geometry I 4 hrs
- MAC 2312 Calculus w/ Analytic Geometry II 4 hrs
- PHY 2048 & L* Physics Engr. & Sci. I & Lab 4 hrs
- 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements

(40 hrs)

- MAC 2313 Calculus w/ Analytic 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

UCF Degree Programs

CHM 4610L	Inorganic Chemistry Lab	2 hrs
CHM 4130	Adv Analytical Lab Technique	3 hrs
CHM 4130L	Adv Analytical Chem Lab	2 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	GEP
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.
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oaas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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

Take Chemistry Placement Test ~ <http://chemplacement.sdes.ucf.edu/>
Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

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 Analytic Geo I	4 CHM 2046 Chemistry Fund II	3
CHM 2045C Chemistry Fund I	4 CHM 2046L Chemistry Fund L	1
	MAC 2312 Calc Analytic 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 Analytic 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	3
CHM 3212L Organic L Tech II	2 CHM 4610 Inorg Chemistry	3
CHM 3410 Physical Chm I	4 BCH 4054* req# 4-ResEI	3
	CHM 4130L Adv Analy Chm Lab	2

Senior Year

Fall	Spring	
HUM 2210* req# 1B1-GEP	3 MUL 2010* req# 1B2-GEP	3
CHM 4610L Inorg Chemistry L	2 SPC 1603 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	

CINEMA STUDIES TRACK in FILM

See Film - Cinema Studies Track

CIVIL ENGINEERING (B.S.C.E.)

College of Engineering and Computer Science
Civil, Environmental, and Construction Engineering
Department (CECE)

ENG2 211, 407-823-2841; Fax: 407-823-3315

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

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,
 E-mail: cpohl@mail.ucf.edu; *Associate Chair and Civil Program*
 Director: F. Necati Catbas, Ph.D., E-mail: catbas@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 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 1603 | |
| 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 and MAC 1140) | |
| 2. Select STA 3032 (PR: MAC 2312) | |
| D. Social Foundations | 6 hrs |
| 1. Select 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	
<i>or</i> CHM 2040C and CHM 2041C		
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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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. A "C" (2.0) or better is required for those courses in section 3. marked with an asterisk(*).

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
CGN 3501C	Civil Engineering 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	3 hrs
<i>or</i> CES 4702	Reinforced Concrete Structures	
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 the CECE Web site and 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

UCF Degree Programs

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 departmental academic advisor to develop and maintain an appropriate plan of study.

Civil Engineering - 128 semester hours required

FIRST YEAR

Fall	14 hrs ^{1,3}	Spring	14 hrs ^{1,3}
*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
or ECO 2023 Microeconomics		EGN 1007C Eng Con & Meth	1
EGN 1006C Intro To Eng Prof	1		

SECOND YEAR

Fall	14 hrs ¹	Spring	16 hrs ¹
*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 Engr II w/lab	4
EGN 3310 Engr Anal - Statics	3	*GEO/GLY/BSC	3
		EGN 3321 Engr Anal-Dynamic	3

Summer

	9 hrs
*SUR 2101C Surveying	3
EGN 3331 Mech of Materials	3
ENV 3001 Intro to Environ Eng	3

THIRD YEAR

Fall	16 hrs	Spring	16 hrs ¹
CWR 3201 Eng Fluid Mechanics	3	CWR 4101C Hydrology	3
CCE 4003 Intro to Const Indus	3	CWR 4203C Hydraulics	3
*SPC 1603 Tech Presentations	3	EGN 3373 Prin Elec Eng	3
CES 4100C Structural Analysis I	4	*HUM/AMH/EUH - II	3
STA 3032 Prob/Stats for Engrs	3	TTE 4004 Transportation Eng	4

FOURTH YEAR

Fall	14 hrs	Spring	15 hrs
ENV 4561 Env Eng-Proc Desgn	4	Approved Project Design Course	3
CEG 4011C Geotechnical Engr	4	CES 4702 Reinfrd Concrte Strctrs	3
CES 4605 Steel Structures	3	or Technical Elective	
or Technical Elective		CGN 3501C Civil Engrg Materials	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 the 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.
4. Students must earn a minimum grade of "C" (2.0) in EGN 3310 or its equivalent before registering for subsequent courses.
5. Students must earn a minimum grade of "C" (2.0) in EGN 3331 or its equivalent before registering for subsequent courses.

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

Department of Communication Sciences & Disorders HPA2 101

<http://www.cohpa.ucf.edu/comdis/>

Undergraduate Program Director: Jamie B. Schwartz, 407-823-4798,
E-mail: jschwartz@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 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

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 or MGF 1107
 - 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
 - One biological science (Prefer BSC 1005)
 - Select 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	3 hrs
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 with 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

(3 hrs)

Students have two options for completing this requirement:

Option 1:		
STA 2023	Statistical Methods I and	GEP
STA 4163	Statistical Methods II or	3 hrs
Option 2:		
STA 2014C	Principles of Statistics (GEP) or	GEP
STA 2023	Statistical Methods I and	
SPA 4803	Research Methods in Communication 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 an 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 sciences 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, and III can also 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$35 per term
- Part-time Student \$17.50 per term

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	15 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
PSY 2012	3	PSC 1121 or PHY 2053C	3
BSC 1005	3	ECO 2013 or ECO 2023	3
One Course: ARH 2050 or	3	or POS 2041	
ARH 2051, or MUL 2010, or		EUH 2000 or HUM 2210	3
THE 2000, or REL 2300, or		or AMH 2010	
PHI 2010, or LIT 2110, or LIT 2120,		DEP 2004	3
or FIL 1000			
Elective	3		

Sophomore Year

Fall

SPC 1608
EUH 2001 or HUM 2230
or AMH 2020
MGF 1106 or MAC 1105
Elective
SPA 3471

15 hrs

Spring
3 SPA 3112 and SPA 3112L
3 Restricted Elective
EAB 3703, or EDF 3303
3 or EEX 4601, or EEC 4604,
3 or SPA 3472
3 STA 2014C or STA 2023
Foreign Lang. I (B.A.)* or
Health Sciences (B.S.) elective

16/17 hrs

4
3
3
3
3
3/4

Summer

Foreign Lang. II (B.A.)* or
Health Sciences (B.S.) elective

3/4 hrs

3/4

Junior Year

Fall

LIN 3716
SPA 3011 and SPA 3011L
SPA 3101
STA 4163 or SPA 4803

13 hrs

Spring
3 LIN 3717
4 SPA 3123 and SPA 3123L
3 SPA 4476
3 SPA 3104

13 hrs

3
4
3
3

Senior Year

Fall

SPA 4032
SPA 4400
LIN 4711 and 4711L
SPA 4056C

15 hrs

Spring
3 SPA 4321
3 SPA 4501L** or SPA 4948
4 Restricted Elective***
5 SPA 4478
Elective

15 hrs

3
3
3
3
3

*Students taking American Sign Language (ASL) to satisfy BA foreign language requirement must complete three semesters of ASL.

**Students must apply and be selected to enroll in SPA 4501L.

***Consult department for list of restricted electives.

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 course work in the major, a combined score of at least 1000 on the GRE, and at least 400 on the verbal section of the GRE. 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.P.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>

E-mail: undergraduate@eecs.ucf.edu

Contacts: Dr. Samuel Richie, HEC 245E;
Charlese Hilton-Brown, HEC 245F

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 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.

- Communication Foundations 9 hrs
 - ENC 1101 & ENC 1102
 - Prefer SPC 1603
- Cultural and Historical Foundations 9 hrs
 - Select two courses from Historical Foundations
 - ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, or LIT 2120
- Mathematical Foundations 7 hrs
 - Select MAC 2311 (PR: MAC 1114 and MAC 1140)
 - Select STA 3032 (PR: MAC 2312)

UCF Degree Programs

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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Courses Required for the Engineering Core (8 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
<i>or</i> EGN 3358	Thermo-Fluids-Heat Transfer	
STA 3032	Probability & Statistics for Engineers	GEP

4. Courses Required for the Major (48 hrs)

COT 3100C	Discrete Structures	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
COP 3330	Object Oriented Prog	3 hrs
COP 4331C	Processes Object Oriented SW Dev	4 hrs
EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEE 3307C	Electronics I	4 hrs
EEE 3342C	Digital Systems	3 hrs
EEL 3801	Computer Organization	3 hrs
EEL 4767C	Embedded Systems	4 hrs
EEL 4768C	Computer Architecture	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
COP 4600	Operating Systems	3 hrs

5. Approved Technical Electives (9 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

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	15 hrs ^{1,3}
*Historical Foundations 1a	3	*ENC 1101 English Comp I	3
GLY/GEO/BSC	3	EGN 1007C Eng Conc & Meth	1
*SPC 1603 Tech Presentations	3	*MAC 2312 Calc with Analy Geo II	4
EGN 1006C Intro to Engr	1	*PHY 2048/L Phys for Eng/Sci I	4
*MAC 2311 Calc with Analytic Geo I	4	COP 3223 Intro to Programming	3
Summer	6 hrs ¹		
*Social Foundations 1	3		
*Science Foundations 2	3		
SECOND YEAR			
Fall	17 hrs ¹	Spring	16 hrs ¹
*MAC 2313 Calc with Analytic Geo III	4	*MAP 2302 Diff Equations	3
Historical Foundation	3	ENC 1102 Composition II	3
*PHY 2049/L Phys Engr/Sci II	4	CHS 1440 Chem for Engr	4
EGN 3310 Engr Anal-Statics	3	EEL 3801 Computer Organization	3
COT 3100C Intro Discrete Structures	3	EEL 3004 Electrical Networks	3
Summer	10 hrs ¹		
*Cultural Foundation	3		
EEL 3123C Networks and Systems	4		
EEE 3342C Digital Systems	3		
THIRD YEAR			
Fall	16 hrs	Spring	15 hrs
COP 3330 Obj Oriented Prog	3	Social Foundation	3
COP 3502C Computer Science I2	3	COP 3503C Computer Science II	4
EEE 3307C Electronics I	4	EEL 4767C Embedded Systems	4
EGN 3321 Engr Anal-Dynamics	3	COP 4331C Processes Obj Ornt	4
<i>or</i> EGN 3358 Ther-Flds-Ht Tran		SW Dev	
STA 3032 Prob/Stats for Engr	3		
FOURTH YEAR			
Fall	16 hrs ^{1,3}	Spring	12 hrs
EEL 4768C Computer Architecture	4	COP 4600 Operating Systems	3
EEL 4914 Senior Design I	3	Approved Technical Elective	3
Approved Technical Elective	3	EEL 4915L Senior Design II	3
Approved Technical Elective	3	EEL 4781 Comp Comm Networks	3
*ECO 2013 Macroeconomics	3		
<i>or</i> ECO 2023 Microeconomics			

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 the 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 the 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>

E-mail: undergraduate@eecs.ucf.edu

Contacts: Dr. Ali Orooji, HEC 245D;

Charlese Hilton-Brown, HEC 245F

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 Web site 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 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 1603 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 7 hrs |
| 1. Select MAC 2311 (PR: MAC 1114 and MAC 1140) | 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 | | |
| Examples of acceptable science courses include: | | |
| BSC 2010C | Biology I | |
| BSC 2011C | Biology II | |
| CHM 2045C | Chem. Fund I | |
| CHM 2046 | Chem. Fund II | |

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 |

- | | | |
|-----------|--|-------|
| EEL 3801 | Computer Organization | 3 hrs |
| COT 3100C | Intro to Discrete Structures | 3 hrs |
| CIS 3360 | Security in Computing | 3 hrs |
| COP 3402 | Systems Software | 3 hrs |
| COT 3960 | Foundat. Exam (PR:COT 3100C & COP 3502C) | 0 hrs |

4. Advanced Core (20 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 |
| EEL 4768C | Comp. Architecture | 4 hrs |
| COT 4210 | Discrete Comp Structures | 3 hrs |
| COP 4020 | Programming Languages I | 3 hrs |
| COP 4600 | Operating Systems | 3 hrs |
| COT 4810 | Topics in Computer Science | 3 hrs |

5. Restricted Electives (15 hrs)

- 4000-5000 level Computer Science courses 9 hrs
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

UCF Degree Programs

FIRST YEAR

Fall	12 hrs	Spring	13 hrs
ENC 1101 English Comp I	3	ENC 1102 English Comp II	3
SPC 1603 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	EEL 3801 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	CIS 3360 Security in Computing	3
Summer	6 hrs		
STA 2023 Statistical Methods	3		
Social Foundations	3		

THIRD YEAR

Fall	14 hrs	Spring	13 hrs
EEL 4768C 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		

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 12 hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of the Catalog for more information.

CONSTRUCTION ENGINEERING (B.S.Con.E.)

**College of Engineering and Computer Science
Civil, Environmental, and Construction Engineering
Department (CECE)**

ENG2 211, 407-823 2841; Fax: 407-823-3315

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

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,
E-mail: cpohl@mail.ucf.edu;
Construction Program Director: 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 the 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 1603	
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 and MAC 1140)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Select 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	
<i>or</i> CHM 2040C and	CHM 2041C	
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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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. A "C" (2.0) or better is required for those courses in section 3. marked with an asterisk(*).

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
CGN 3501C	Civil Engineering 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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 departmental academic advisor to develop and maintain an appropriate plan of study.

Construction Engineering – 128 semester hours required

FIRST YEAR

Fall	14 hrs ¹	Spring	15 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	*GEO GLY/BSC	3
or ECO 2023 Microeconomics		EGN 1007C Eng Con & Meth	1
EGN 1006C Intro To Eng Prof	1		

SECOND YEAR

Fall	16 hrs ¹	Spring	16 hrs ¹
*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 Engr II w/lab	4
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 hrs ¹		
*SPC 1603 Tech Presentations	3		
STA 3032 Prob/Stats Engineers	3		
ENV 3001 Intro to Environ Eng	3		

THIRD YEAR

Fall	16 hrs ¹	Spring	15 hrs ¹
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	or CES 4605 Steel Structures	
*Cultural/Historical Elective	3	CCE 4004 Construct Methods	3
CGN 3501C Civil Engrg Materials	3	*SUR 2101C Surveying	3
		CWR 3201 Eng Fluid Mechanics	3

FOURTH YEAR

Fall	15 hrs	Spring	12 hrs
TTE 4004 Transportation Eng	4	CCE 4810C Constr Design Project	3
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 the Catalog for further information.
2. Engineering Science Elective may be satisfied by taking either EGN 3343, EGN 3373, CWR 4101C or CWR 4203C; other courses must be approved by the 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.
5. Students must earn a minimum grade of "C" (2.0) in EGN 3310 or its equivalent and EGN 3331 or its equivalent before registering for subsequent courses.

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

Department of Criminal Justice and Legal Studies

HPA 311, 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

E-mail: cjadvice@mail.ucf.edu

Undergraduate Program Director: 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 overall GPA in the core requirements and the restricted electives.
- Students must earn a grade of C- (1.75) or better in each core course.

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 or MGF 1107	
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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

UCF Degree Programs

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 of upper-division CJ credit from the UCF Criminal Justice 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
MGF 1106 <i>or</i> MAC 1105	3	CGS 1060C	3
PSY 2012 <i>or</i> SYG 2000 <i>or</i> ANT2000	3	PSC 1121 <i>or</i> CHM 1020	3
EUH 2000 <i>or</i> HUM 2210	3	PHI 2010 <i>or</i> MUL 2010	3
<i>or</i> AMH 2010		ARH 2050, THE 2000,	3
PAF 2102	2	REL 2300, PHI 2010, LIT 2110,	
		<i>or</i> LIT 2120	

Sophomore Year

Fall	15 hrs	Spring	15 hrs
SPC 1608	3	CCJ 3024	3
EUH 2001 <i>or</i> HUM 2230 <i>or</i>	3	CCJ 3014	3
AMH 2020		CJ Elective	3
BSC 1005 <i>or</i> MCB1310 <i>or</i>	3	CJ Elective	3
GLY 1030 <i>or</i> PSC 1121 <i>or</i>		Supporting Elective	3
ANT 2511			
Elective	3		
POS 2041 <i>or</i> ECO 2013	3		

Junior Year

Fall	15 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	12/15 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, see description of this program in the **Statewide Articulated AS to BS Programs** section.

DIGITAL MEDIA (B.A.)

College of Arts and Humanities

Digital Media, 12461 Research Parkway, 500 OTC

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

Interim Chair: Dr. José Maunez-Cuadra, 407-823-6100

The UCF Digital Media Program allows students to integrate the multiple domains of art, storytelling, 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. Three specializations – game design, web design, and visual language — lead to a Bachelor of Arts degree.

Note: Although the Department of Digital Media maintains a small computer lab for student use, Digital Media majors must have continual access to a computer. Contact the UCF Computer Store or see the Web site (<http://www.cstore.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, except DIG 2000 as noted.
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken in the Department of Digital Media at UCF.
- Co-op or internship credits are not permitted in this major without prior, written permission.
- Students should see the Department of Digital Media's advisor prior to selecting this major, and at least annually thereafter.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
 - Select from approved list of courses
- B. Cultural and Historical Foundations 9 hrs
 - Select ARH 2050 *or* ARH 2051
 - Select two additional courses from approved list
- C. Mathematical Foundations 6 hrs
 - Select MAC 1105 College Algebra and
 - Select COP 2500C Concepts in Computer Science
- D. Social Foundations 6 hrs
 - Select from approved list of courses
- E. Science Foundations 6 hrs
 - Select from approved list of courses

2. Common Program Prerequisites (6 hrs)

- ART 2300C Drawing Fundamentals I 3 hrs
- ART 2201C Design Fundamentals – Two Dimensional 3 hrs
- ARH 2050 History of Western Art I GEP
- and* ARH 2051 History of Western Art II GEP
- COP 2500C Concepts in Computer Science GEP
- MAC 1105 College Algebra GEP

3. Digital Media Core (24 hrs)

Note: Admission to all courses after DIG 2000 is dependent on the student's achieving at least a 'B' (3.0) in DIG 2000.

DIG 2000	Introduction to Digital Media	3 hrs
DIG 2030C	Digital Video Fundamentals	3 hrs
DIG 2109C	Digital Imaging Fundamentals	3 hrs
DIG 2500C	Fundamentals of Interactive Design	3 hrs
DIG 3024	Digital Cultures & Narrative	3 hrs
DIG 3525	Digital Media Production I	3 hrs
DIG 3480C	Computer as a Medium	3 hrs
DIG 4780C	Modeling For Real-time Systems I	3 hrs

4. Specializations. Choose one of the following two areas:

4.1 Game Design: (42 hrs)

Note: Admission to all courses after DIG 4713 is dependent on the student's achieving at least a 'A' (4.0) in DIG 4713

4.1.A: Game Design - Basic Concentration: (24 hrs)

COP 3223	Introduction to Programming with C	3 hrs
COP 3330	Object Oriented Programming	3 hrs
DIG 4713	Game Design	3 hrs
DIG 4715C	Game Production	3 hrs
DIG 4720C	Casual Game Production	3 hrs
DIG 4530C	Media for E-Commerce I	3 hrs
FIL 3720C	Introduction to Animation	3 hrs
GRA 3151C	Illustration	3 hrs

4.1.B: Game Design - Restricted Electives: (18 hrs)

Complete 18 hours of credits from the following areas:

Note: DIG 4725C must be taken at least two times. It is repeatable for credit.

DIG 4725C	Game Design Workshop	6 hrs
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12 additional hrs of 3000 or 4000 level courses from ART, ARH, GRA, DIG or any 3000 or 4000 level courses approved by Digital Media.

4.2 Web Design: (42 hrs)

4.2.A: Web Design - Basic Concentration: (24 hrs)

DIG 3134	Media Software Design	3 hrs
DIG 3563	Information Management & Entrepreneurship	3 hrs
DIG 3716C	Internet Interaction	3 hrs
DIG 3811	User Centered Design	3 hrs
DIG 4630C	Media Business Practices	3 hrs
DIG 4503	Rapid Application Web Development	3 hrs
DIG 4530C	Media for E-Commerce I	3 hrs
GRA 3801C	Intermediate Computer Graphic Design	3 hrs

4.2.B: Web Design - Restricted Electives: (18 hrs)

Complete 18 hours of credits from the following areas:

Note: DIG 4104C must be taken at least two times. It is repeatable for credit.

DIG 4104C	Web Design Workshop	6 hrs
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12 additional hrs of 3000 or 4000 level courses from ART, ARH, GRA, DIG or any 3000 or 4000 level courses approved by Digital Media.

4.3. Visual Language: (46 hrs)

4.3.A: Visual Language Core: (15 hrs)

DIG 3951	Portfolio Review	
ART 3643C	Digital Effects & Compositing	3 hrs
DIG 4325C	Look Modeling Workshop	3 hrs
DIG 4326C	Geometric Modeling Workshop	3 hrs
FIL 3720C	Introduction to Animation	3 hrs
FIL 3734C	Intermediate Animation	3 hrs

4.3.B: Visual Language - Basic Concentration: (24 hrs)

DIG 3355C	Artificial Environments & Effects	3 hrs
DIG 3433C	Visual Storytelling & Visual Development	3 hrs
DIG 4359C	Artificial Environments & Effects Workshop	3 hrs
DIG 4206C	New Imagery in Motion	3 hrs
DIG 4394C	Motion Graphics Advanced Compositing	3 hrs
DIG 4434C	Narrative Technology in the Moving Image	3 hrs
DIG 4486C	Visual Language of the Moving Image II	3 hrs
DIG 4451C	Visual Story & Visual Development Workshop	3 hrs

4.3.C: Character Animation - Restricted Electives: (7 hrs)

Complete 7 hours of credits from the following areas: (7 hrs)

ART, ARH, GRA, DIG or any 3000 or 4000 level courses approved by Digital Media and Applied Arts.

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. Unrestricted Electives (Varies with Track)

Electives may be taken in allied programs such as Art, Music, Philosophy, English, Film, the Nicholson School of Communication, Computer Science, etc. as approved by Digital Media.

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, 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

EARLY CHILDHOOD EDUCATION (B.S.)

PRE-KINDERGARTEN - PRIMARY (PK-3)

College of Education

Department of Child, Family and Community Sciences

ED 209

<http://education.ucf.edu/ece/>

E-mail: ece@mail.ucf.edu

Program Coordinator: Dr. Judy Levin, ED 122L, 407-823-4615;

E-mail: jlevin@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 2.75 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" (2.0) or better.
- Meet the Gordon Rule Requirement.
- Meet Foreign Language Admission Requirement.

Degree Requirements

- Students should seek advising through the Early Childhood Education staff in the Education Complex, suite 122 or by e-mail (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" (2.0) 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.fldoe.org> for available test dates and test sites.

UCF Degree Programs

- 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 required at the time of application to EEC 3930C Seminar Course.
- FTCE Professional Education Test (PEd) and Subject Area Examination (SAE – Prekindergarten/Primary PK-3) – passing scores strongly recommended prior to application for Internship.
- 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)
- ENC 1101 English Composition I 3 hrs
 - ENC 1102 English Composition II 3 hrs
 - Prefer SPC 1608 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundation (9 hrs)
- General Education Program elective from section B1 3 hrs
 - 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
 - General Education Program elective: Prefer second course from GEP section B1. 3 hrs
- C. Mathematical Foundation (6 hrs)
- Prefer: MGF 1106 Finite Mathematics *or* MGF 1107 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 (6 hrs)
- Prefer: PSC 1121 Physical Science 3 hrs
 - 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 the Teaching Profession | 3 hrs |
| EDF 2085 | Introduction to Diversity for Educators | 3 hrs |
| EME 2040 | Introduction to Technology for Educators | 3 hrs |

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Other Program Requirements (15 hrs)

- | | | |
|-----------|--|-------|
| MAC 1105 | College Algebra <i>or</i> | 3 hrs |
| MAE 2801 | Elem Schl Math | 4 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 <i>or</i> | 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" (2.0) or better before registering for Internship. However, a minimum GPA of 2.75 is required in the professional, specialization and overall for admission to Internship.
- 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 4661 | 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 required at the time of application to EEC 3930C Seminar Course.

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 4240 | 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 to be taken during Semester III.

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.

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 3930C | Early Childhood Education Seminar – Bridging Theory to Practice (This course includes in-school field experiences.) | 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).
- Students must apply and be approved for Internship. 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 | 12 hrs |
|----------|-------------------------------|--------|

- Satisfactory completion of Internship 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

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 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	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 1608 Fund of Oral Comm	3	EDF 2130 Child and Adol Dev Ed*	3
EME 2040 Intro to Tech for Educators	3	EDF 2720 Child in Sch: Legal,	3
BSC 1005 Biological Principles <i>or</i>	3	Ethical and Safety Concerns*	
ANT 2511 The Human Species	3	EEC 4731 Hlth, Safe, & Nutrit for	3
STA 2014C Princ of Stats <i>or</i>	3	Young Children or similar course	
STA 1060C Basic Stats using MS Excel	3	GEP B3 elective (Prefer AMH 2020)	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 <http://www.fldoe.org> for test dates and sites.

Junior Year

Fall	15 hrs	Spring	15 hrs
EEC 3700 Soc & Emo Dev of Young	3	EEC 4604 Class Mgt Guid Yng Child3	
EEC 4661 EC Ed Theory and Pract	3	EEC 4207 Assess & Eval Yng Child	3
RED 3310 Erly Read, Writ & Lang Arts	3	TSL 4240 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	3	EEX 3450 Yng Child Spec Needs	3
ESOL Students in Schools		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).

Senior Year

Fall	12 hrs	Spring	12 hrs
MAE 4300 Math Curr & Assess in EC	3	EEC 4943 Student Teach-Intern	12
SCE 4304 Sci Curr & Assess in EC	3		
RED 4311 Prim Read, Writ, & Lang Arts Curr and Asses	3		
EEC 3930C ECE Seminar Bridging Theory to Prac (This course includes in-school field experiences.)	3		

ECONOMICS (B.A.)

College of Business Administration

Department of Economics, BA2 305, 407-823-3266

<http://www.bus.ucf.edu/economics>

Not eligible for a double degree with the BSBA in Economics

Advisors: Michael Caputo, BA2 302Q, 407-823-1405, E-mail: mcaputo@bus.ucf.edu; D. Scrogin, BA2 302U, 407-823-4129; N. Underwood, BA2 302N, 407-823-1403

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
Preferred: SPC 1608	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1140 Pre-Calculus Algebra (<i>or</i> Calculus)	3 hrs
Select STA 2023 Principles of Statistics	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics <i>or</i>	3 hrs
ECO 2023 Microeconomics	
Select one: PSY 2012, SYG 2000 <i>or</i> ANT 2000	3 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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

Restricted electives (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.

UCF Degree Programs

4.2 POLITICAL ECONOMY TRACK

Restricted electives (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

Restricted electives (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

Restricted electives (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

Restricted electives (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 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 advisors 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, Finance, Real Estate, Business, 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 every 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$30 per term
- Part-time Student \$15 per term

Four Year Plan of Study – B.A. Economics

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ECO 2023* Microeconomics	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1608	3	Art/Music/Lit	3
MAC 1140* (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* Macroeconomics	3	ECO 3101 Inter Microeconomics	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
ECO 3401 (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 Inter Macroeconomics	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 Research Methods	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>

Not eligible for a double degree with another College of Business Administration major or a BA in Economics

Undergraduate Advising: BA2 101, 407-823-2184;

Advisors: Michael Caputo, BA2 302Q, 407-823-1405,

E-mail: mcaputo@bus.ucf.edu; D. Scrogin, BA2 302U, 407-823-

4129; N. Underwood, BA2 302N, 407-823-1403

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, and the Gordon Rule, 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 |
| Preferred: SPC 1608 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| Select MAC 1140 Pre-Calculus Algebra (or Calculus) | 3 hrs |
| Select CGS 2100C Computer Fundamentals for Business | 3 hrs |
| D. Social Foundations | |
| Select ECO 2013 Principles of Macroeconomics or | 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 2100C | 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes (36 hrs)

First or subsequent semester in the College of Business Administration:

- | | | |
|------------|---|-------|
| GEB 3031 | Cornerstone (Required in 1st or 2nd semester) | 4 hrs |
| GEB 3375 | Introduction to International Business | 4 hrs |
| BUL 3130 | Legal & Ethical Environ. of Business | 4 hrs |
| ECO 3411** | Quantitative Business Tools II | 4 hrs |
| FIN 3403C | Business Finance | 4 hrs |
| MAN 3025 | Management of Organizations | 4 hrs |
| ISM 3011C | 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

- Must complete all Gordon Rule requirements, prior to admission to this degree.
- 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.

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 TRACK

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.

UCF Degree 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.

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.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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$30 per term
- Part-time Student\$15 per term

Four Year Plan of Study - Business Economics

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ECO 2023* Microeconomics	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1608	3	Art/Music/Lit	3
MAC 1140* (or Calculus)	3	ENC 1102*	3
***Elective	3	CGS 2100C*	3

Must complete 9 hours in a summer semester

Sophomore

1st Term	15 hrs	2nd Term	15 hrs
ECO 2013* Macroeconomics	3	ECO 3101 Inter Macroeconomics	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3

ECO 3401* (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 Inter Macroeconomics	3	ECO Elective	3
ECO 3411	4	GEB 3375	4
MAR 3023	4	MAN 3025	4
GEB 3031	4	FIN 3403C	4

Senior

1st Term	16 hrs	2nd Term	14 hrs
ECO Elective	3	ECO 4451 Research Methods	3
ISM 3011C	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 Programs" section.

ECONOMICS

See also Mathematics - Mathematical Economics Track

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>

E-mail: undergraduate@eecs.ucf.edu

Contacts: Dr. Samuel Richie, HEC 245E;
 Charlese Hilton-Brown, HEC 245F

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 (36+2 hrs) Engineering Students

The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in the 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 1603	
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 and MAC 1140)	
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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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
EEE 3350	Semiconductor Devices I	3 hrs
EEE 3307C	Electronics I	4 hrs
EEE 3342C	Digital 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	Computer Organization	3 hrs
EEE 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Embedded Systems	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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

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	14 hrs ^{1,3}	Spring	15 hrs ^{1,3}
EGN 1006C Intro to Engr	1	EGN 1007C Eng Conc & Meth	1
Historical Foundation1a	3*	*ENC 1101 English Comp I	3
SPC 1603 Technical Presentations	3	COP 3223 Intro to Programming	3
*MAC 2311 Calc with Analytic Geo I	4	*MAC 2312 Calc with Analy Geo II	4
GLY/GEO/BSC	3	*PHY 2048/L Phys Eng I w/lab	4

SECOND YEAR

Fall	17 hrs ¹	Spring	15 hrs ¹
*MAC 2313 Calc with Analytic Geo III	4	*MAP 2302 Diff Equations	3
*PHY 2049/L Phys for Engr II w/lab	4	*PHY 3101 Phys for Engr/Sci III	3
EGN 3310 Engr Anal-Statics	3	EEL 3801 Computer Organization	3
*ECO 2013 Macroeconomics	3	EEL 3004 Electrical Networks	3
<i>or</i> ECO 2023 Microeconomics		*Cultural Foundations	3
ENC 1102 English Comp II	3		

Summer

	10 hrs ¹
EEE 3342C Dig Systems	3
EEL 3123C Networks and Systems	4
*Social Foundations 1	3

THIRD YEAR

Fall	14 hrs	Spring	17 hrs
EEE 3350 Semicond Devices I	3	EEE 3307C Electronics I	4
EEL 3552C Anal & Dig Comm	4	EEL 3657 Linear Control Sys	3
EEL 4767C Embedded Systems	4	CHS 1440 Chem for Engrs	4
EGN 3321 Engr Anal-Dynamics	3	EGN 3420 Engineering Anal ²	3
<i>or</i> EGN 3358 Ther-Flds-Ht Transfer		STA 3032 Prob & Stats Engrs	3

FOURTH YEAR

Fall	16 hrs ¹	Spring	13 hrs
EEL 4750 Signal Proc Fund	3	EEE 4309C Electronics II	4
EEL 3470 Electromagnetic Flds	3	Approved Technical Elective	3
Approved Technical Elective	4	Approved Technical Elective	3
EEL 4914 Senior Design I	3	EEL 4915L Senior Design II	3
*Historical Foundations 1b	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 the Catalog for further information.
2. Assumes knowledge of a course in C programming language.
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 the Catalog for more information.

UCF Degree Programs

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@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

(36+2 hrs)

A. Communication Foundations

9 hrs

1. ENC 1101 & 1102

2. Prefer SPC 1603

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 (2.0) 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Engineering Technology Core Requirements

(25 hrs)

(C (2.0) 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

PHY 2053C Calculus II

CPP

PHY 2054C College Physics I

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

(24 hrs)

(C (2.0) or better grades are required in all courses)

EST 3543C Programmable Logic Controllers

3 hrs

CET 3115C 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

2 hrs

Upper Level Required Courses

(23 hrs)

(C (2.0) or better grades are required in all courses)

CET 3198C Digital Systems

3 hrs

CET 2124 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 4548C Power Systems

4 hrs

EET 4732C Feedback Control Systems

4 hrs

Upper Level Technical Electives

(9 hrs)

Select 9 hours from courses listed below:

(C (2.0) or better grades are required in all courses)

CET 4138C Digital Programmable Devices 3 hrs

CET 4333 Computer Organization & Design 3 hrs

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

(3 hrs)

(C (2.0) 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

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 the 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

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.

UCF Degree Programs

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	13/14 hrs
SPC 1608 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	ETI 3116 App Eng Quality Assur	3
ETI 3651C Computer Appl	3	PHY 2054C College Physics II	4
CET 2364 Sys Appl in C	3	ETG 3541 Applied Mechanics	3
Summer	7 hrs		
ENC 3241 Writing Tech Pros	3		
EET 3085C Electricity and Electro	4		

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
CET 3115C Digital Technology	4	Social Foundation	3
Lower level elective	2		
Summer	10 hrs		
CET 4134C Microprocessor Elec II	3		
EET 3143C Elect Devices and Circuits	4		
Upper level elective	3		

Senior Year

Fall	16 hrs	Spring	13 hrs
EET 4548C Power Systems	4	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 2124 Microcom Tech I	3		

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)

A.S. to B.S.E.E.T. CONCENTRATION

Note: For detailed information, see description of this program in the Statewide Articulated AS to BS Programs section.

ELEMENTARY EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED 209

<http://education.ucf.edu/elemed/>

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.
- Meet the Foreign Language Admission 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

A. Communication Foundation	(36 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1608 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, or ARH 2051 The History of Art II, or 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 or MGF 1106 Finite Mathematics or MGF 1107	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: BSC 1005 Biological Principles	3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites

EDF 2005	Introduction to the Teaching Profession	3 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Other Program Requirements

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

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
Semester II		(15 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
RED 4519	Diagnostic & Corrective Reading Strategies (required prior to Internship I)	3 hrs
EEX 4070	Teaching Exceptional Children	3 hrs
Summer		(6 hrs)
EDF 4603	Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs
TSL 4240	Issues in Second Language Acquisition	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.

UCF Degree Programs

- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is required 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 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.education.ucf.edu/clinicaexp/>. Prerequisites for Internship I: EDG 4410, RED 3012, TSL 4080, MAE 2801.

Note: RED 4942, MAE 4326, and EDE 4223 are taken concurrently with EDE 3942 Internship I. Students should not plan to take additional courses with Internship I block because of the intensity of the Internship I semester.

Semester III (Internship I Block)		(12 hrs)
RED 4942	Practicum for Assessment and Instruction of Reading (PR: RED 4519)	3 hrs
MAE 4326	How Children Learn Math	3 hrs
EDE 4223	Integrated Arts and Movement in Elem School	3 hrs
EDE 3942	Internship I	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.clinical-experiences.education.ucf.edu/clinicaexp/>.
- 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)		(12 hrs)
EDE 4943	Internship II	12 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. Departmental Exit Requirements (0-8 hrs)**
- 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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		12 hrs	Spring	13 hrs
Fall	EME 2040 Intro to Tech for Educators	3	EDF 2130 Child & Adoles Dev Ed*	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		15 hrs	Spring	14 hrs
Fall	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
	EDF 2005 Intro to the Teaching Prof	3	STA 2014C Principles of Statistics	3
	SPC 1608 Fund of Oral Comm	3	EDF 2085 Intro to Diversity for 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		15 hrs	Spring	15 hrs
Fall	EDG 4410 Teach Strat & Class Mgmt	3	RED 4519 Diagn & Corr Read Strat	3
	EDF 4467 Learn Theory & Assmt	3	SCE 3310 Teach Sci in Elem Sch	3
	LAE 3414 Children's Literature	3	SSE 3312 Teach Soc Sci Elem Sch	3
	RED 3012 Basic Found of Reading	3	LAE 4314 Teach Lang Arts Elem	3
	TSL 4080 Theory & Prac of Teach ESOL Students in Schools	3	EEX 4070 Teach Excepti Children	3

Summer		6 hrs
	EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch	3
	TSL 4240 Issues in 2nd Lang Acquisition	3

Senior Year		12 hrs	Spring	12 hrs
Fall	MAE 4326 How Children Learn Math	3	EDE 4943 Internship II	12
	RED 4942 Practicum for Assmt & Instruct of Reading	3		
	EDE 4223 Integrated Arts and Movement in Elem School	3		
	EDE 3942 Internship I	3		

ENGINEERING TECHNOLOGY - DESIGN CONCENTRATION (B.S.E.T.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207
<http://ent.ucf.edu>

Coordinator: Dr. Eduardo Divo, 407-823-4753,
E-mail: edivo@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 1603		
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 (2.0) 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	
See "Common Prerequisites" in the Transfer and Transitions Services section for more information.		

3. Engineering Technology Core Requirements

ANT 2511, BSC 1005, BSC 1050, GEO 1200, MCB 1310 <i>or</i> GLY 1030		(21 hrs)
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 (2.0) 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/L 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 4231C 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
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
SUR 3324C Digital Cartography	3 hrs

5. Departmental Graduation Requirement

(3 hrs)
(C (2.0) or better grades are required in all courses)
ETG 4950C Senior Design Project 3 hrs
(C (2.0) or better grades are 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 the 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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 1608 Oral Communications	3	Cultural/Historical Foundation	3
PHY 2053C College Physics I	4	STA 2023 Statistical Methods	3
Cultural/Historical Foundation	3	MAP 3401 Prob 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	
		ETI 3671 Tech Econ Analysis	3
		Lower level elective	3

Summer

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	Lower 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	EST 3543C PLC	3
ETD 3350C Appl CAD	3	Upper level elective	3

I. Mechanical Technology Track

Summer	7 hrs
ETM 4331C Appl Fluid Mech	4
ETI 4448 Applied Proj Mgmt	3

UCF Degree Programs

Senior Year			
Fall	13 hrs	Spring	14 hrs
ETI 3421 Materials & Processes	3	EST 4502C Metro Instr	4
ETG 3533C Appl Eng Str Mat	4	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
ETI 4448 Applied Proj Mgmt	3
Upper level elective	3

Senior Year			
Fall	12 hrs	Spring	16 hrs
ETC 4241C Const Mat & Meth	3	ETG 4950C Sr Design Proj	3
ETC 4414C Appl Struct Des I	3	ETC 4206 Const Estimating	3
ETC 4242 Const Conds & Specs	3	ETC 4415C Appl Struct Des II	3
Upper level elective	3	ETG 3533C Appl Eng Str Mat	4
		Upper level elective	3

ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

<http://ent.ucf.edu>

Coordinator: Dr. Eduardo Divo, 407-823-4753,

E-mail: edivo@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 1603	
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 (2.0) 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	

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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	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 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 (2.0) or better grades are required in all courses)

Lower Level Required and Elective Courses (25 hrs)

EST 3543C Programmable Logic Controllers	3 hrs
CHM 1032/L 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
SUR 3324C 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 (2.0) or better grades are required in all courses)

ETG 4950C Senior Design Project	3 hrs
(C (2.0) or better grades are 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 the 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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 1608 Oral Communications	3	Cultural/Historical Foundation	3
PHY 2053C College Physics I	4	STA 2023 Statistical Methods	3
Cultural/Historical Foundation	3	MAP 3401 Prob 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

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	Lower level elective	4
Lower level elective	3	CET 2364 Sys Appl in C++	3
Social Foundation	3	ETI 3690 Technical Sales	3
ETG 3541 Applied Mechanics	3	ETI 4635 Tech Admin	3
ETD 3350C Appl CAD	3	Upper level elective	3

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 PLC	3	Upper level elective	4
Upper level elective	3	Upper level elective	4
Upper level elective	3		

ENGLISH - CREATIVE WRITING (B.A.)

College of Arts and Humanities

English Department, CNH 405

<http://english.cah.ucf.edu/>

E-mail: english@ucf.edu

Contact: D. Wallace, 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)

- Communication Foundations
 - Select ENC 1101 and ENC 1102 6 hrs
 - Prefer SPC 1608 Fund of Oral Com 3 hrs
- 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
- Mathematical Foundations
 - Prefer MGF 1106 Finite Mathematics or MGF 1107 (may substitute a higher level math) 3 hrs
 - Prefer STA 1060C Statistics Using Excel 3 hrs
- Social Foundations 6 hrs
- Science Foundations 6 hrs

2. Common Program Prerequisites

- ENC 1101* Composition I GEP
- ENC 1102 *Composition II GEP

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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

- Select at least one of these pre-1865 literature courses.
 - AML 3031 American Literature I
 - AML 3286 Early American Women's World
 - AML 3613 Narratives of Slavery
 - AML 3640 Native American Literature
 - 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
- 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 3643 Contemp. Native American Prose and Poetry
 - 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)

- 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
- Choose two of the following: 6 hrs
 - CRW 3120 Fiction Writing Workshop
 - CRW 3211 Creative Nonfiction Writing
 - CRW 3310 Poetry Writing Workshop
 - CRW 3610 Writing Scripts

UCF Degree Programs

- 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 | |
| CRW 4616 | Advanced Script Writing | |
- *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 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 Communication, Literature

Related Minors: Linguistics, Technical Communication, 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 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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 1608* req# 1A3-GEP	3	SPN 1120C* 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 2022* req# 4a-LitHis	3
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1121C* 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://education.ucf.edu/englished/>

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.
- Meet Foreign Language Admission 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 1608 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 or MGF 1107 | 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 the Teaching Profession	3 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, a minimum of six hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4242	Teaching Exceptional Students in Sec Settings	3 hrs
RED 4043	Content Reading Kindergarten through Gr 12	3 hrs
TSL 4240	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
	or LIN 4105 History of English Language	
Upper Division Elective with RED, LAE, EDG, or EDF prefix		3 hrs
LAE 4464	Introduction to Adolescent Literature	3 hrs

- 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 required 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.education.ucf.edu/clinicalexp/>.

6. Internship I Block (9 hrs)

LAE 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.clinical experiences.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 (12 hrs)

LAE 4941	Internship II	12 hrs
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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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

12. Recommended Four Year Sequence of Courses

Freshman Year

Fall	12 hrs	Spring	12 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	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 Intro to 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 1608 Fun of Oral Comm	3		
STA 2014C Principles of Statistic or	3		
STA 1060C Basic Stat MS Excel			

***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

TSL 4080 Theory & Prac of Teach ESOL 3	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 4240 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	Upper Division Elective with RED, LAE, EDG or EDF Prefix	3
LAE 4242 Intro to Adol Literature	3	EDF 4603 Anal & Appl of Eth, Legal, & 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
LAE 3940 Internship I	3	LAE 4941 Intern II	12
LAE 4360 Eng Instructional Anal	3		
LAE 4342 Teach Lang/Composition	3		
EEX 4242 Teach Ex Stud in Sec Settings 3			

ENGLISH - LITERATURE (B.A.)

College of Arts and Humanities

English Department, CNH 405

<http://english.cah.ucf.edu>

E-mail: english@ucf.edu

Contact: D. Wallace, 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.

UCF Degree Programs

- 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 1608 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 or MGF 1107 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

- ENC 1101*Composition I GEP
- ENC 1102*Composition II GEP

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core - Gateway Courses (6 hrs)

- a. Prerequisite for all 4000 level AML, ENG, ENL, or LIT courses 3 hrs
- ENG 3014 Theory & Tech of Literary Study
- b. Choose one gateway course: 3 hrs
- CRW 3013 Creative Writing for English Majors
- 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 3286 Early American Women's Words
 - AML 3613 Narratives of Slavery
 - AML 3640 Native American Literature
 - 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
 - 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 3643 Contemp. Native American Prose and Poetry
 - 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 4303 British Authors
 - ENL 4311 Chaucer
 - ENL 4341 Milton
 - ENL 4333 Shakespeare
 - LIT 4244 World Authors
- 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 Communication

Related Minors: Creative Writing, Linguistics, Technical Communication, 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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
HUM 2210* req# 1B1-GEP	3 ENC 1102 Composition II
MGF 1106* req# 1C1-GEP	3 LIT 2110 World Literature I
POS 2041* req# 1D1-GEP	3 STA 1060C Stat Using Excel
SPC 1608* req# 1A3-GEP	3 SPN 1120C* req# Lang/Elect

Sophomore Year

Fall	Spring
BSC 1005* req# 1E2-GEP	3 ENG 3014 Theor Tech of St
LIT 2120 World Lit II	3 AML 3031* req# 4a-Hist
PSY 2012* req# 1D2-GEP	3 AML 3041* req# 4b-His
Elective* Check restrictions	3 Elective* Check restrictions
SPN 1121C* req# Lang/Elect	4 SPN 2200* req# Lang/Elect

Junior Year

Fall	Spring
CRW 3013* req# 3-Core	3 ENL 2012* req# 4a-Hist
ENL 2022* req# 4b-Hist	3 AML 4261* req# 4b-Hist
LIN 4105* req# 5b-UD	3 ENL 4333* req# 5a-UD
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

Senior Year

Fall	Spring
AML 4101* req# 5c-UD	3 LIT 3383* req# 5c-UD
ENL 4253* req# 5c-UD	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3

ENGLISH - TECHNICAL COMMUNICATION (B.A.)

College of Arts and Humanities

English Department, CNH 405

<http://english.cah.ucf.edu>

E-mail: english@ucf.edu

Contact: D. Wallace, 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 1608 Fund of Oral Com	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics or MGF 1107 (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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core courses - Basic (6 hrs)

Choose one of the following:

ENC 3211	Theory & Practice of TechWriting	3 hrs
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or

ENC 3241	Writing for the Technical Professional	3 hrs
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Choose one of the following:

ENG 3014	Theory & Tech of Literary Study	3 hrs
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or

CRW 3013	Creative Writing for English Majors	3 hrs
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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 3286	Early American Women's Words
AML 3613	Narratives of Slavery
AML 3640	Native American Literature
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 3643	Contemp. Native American Prose and Poetry
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 (15 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
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
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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.

UCF Degree Programs

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 Communication, 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

ENVIRONMENTAL ENGINEERING (B.S.Env.E.)

**College of Engineering and Computer Science
Civil, Environmental, and Construction Engineering
Department (CECE)**

ENG2 211, 407-823-2841; Fax: 407-823-3315

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

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,
E-mail: cpohl@mail.ucf.edu; *Environmental Program Director:*
Andrew A. Randall, Ph.D., P.E., E-mail: randall@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 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 1603 | |
| 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. Select 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 | |

(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	
<i>or</i> CHM 2040C and CHM 2041C		
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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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. A "C" (2.0) better is required for those courses in section 3. marked with an asterisk(*).

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 & Hazardous Waste Management	4 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 (7 hrs)

Technical electives are available in the BSEnvE program to address specific student interests in a variety of technical areas. Students should consult the CECE Web site and 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, Bioengineering.

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.
- Courses transferred into the major must have a minimum grade of "C" (2.0).

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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 departmental academic advisor to develop and maintain an appropriate plan of study.

Environmental Engineering - 128 semester hours required

FIRST YEAR

Fall	14 hrs ^{1,2}	Spring	15 hrs ^{1,2}
*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
*ECO 2013 Macroeconomics <i>or</i>	3	*PHY 2048/L Phys Engr I w/lab	4
ECO 2023 Microeconomics	3	*Earth Science	3
*Biological Science	3	EGN 1007C Eng Conc & Meth	1
EGN 1006C Intro to Engr	1		

SECOND YEAR

Fall	16 hrs ¹	Spring	17 hrs ¹
*MAC 2313 Calc w/Analy 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 Engring Econ Anal	2	EGN 3321 Engr Anal-Dynamics	3
Summer	9 hrs ¹		
*SPC 1603 Tech Presentations	3		
EGN 3343 Thermodynamics	3		
ENV 3001 Intro to Environ Eng	3		

THIRD YEAR

Fall	16 hrs	Spring	16 hrs ¹
CWR 3201 Engr Fluid Mech	3	CWR 4101C Hydrology	3
EGN 3331 Mech of Materials	3	CWR 4203C Hydraulics	3
STA 3032 Prob/Stats for Eng	3	Technical Elective	4
ENV 4341 Solid/Haz Waste	4	*Cultural Elective	3
CCE 4003 Intro to Constr Indus	3	EGN 3373 Prin Elec Eng	3

FOURTH YEAR

Fall	13 hrs	Spring	13 hrs
ENV 4120 Air Pollution Contrl	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	4
Approved Proj Design Course	3	*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 the 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.
3. Students must earn a minimum grade of "C" (2.0) in EGN 3310 or its equivalent and ENV 3001 or its equivalent before registering for subsequent courses.

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

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

E-mail: hospitality@mail.ucf.edu

Dean: Abraham Pizam

1. UCF General Education Program (GEP)

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 <i>or</i>	3 hrs
STA 2023 Statistical Methods I	
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 Degree Requirements (3 hrs)

HFT 1000	Introduction to Hospitality Management	3 hrs
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See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Foundations

Quantitative Tools

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 (25 hrs)

HFT 2401	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 4464	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

UCF Degree Programs

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 five courses from the list below

HFT 3741	Meeting Management	3 hrs
HFT 4754	Exhibit and Trade Show Operations	3 hrs
HFT 3517	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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$75 per term
- Part-time Student\$37.50 per term

FOUR YEAR PLAN OF STUDY FOR EVENT MANAGEMENT*

*Plan your required nine summer credit hours into your course of study.

Freshman Year		15 Hrs	Spring	15 Hrs
Fall				
ENC 1101	3 hrs	ENC 1102	3 hrs	
Cult/Hist Found Seq. I	3 hrs	SPC 1608	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	3 hrs	HFT 2750	3 hrs	
or ANT 2000				

Sophomore Year		15 hrs	Spring	15 hrs
Fall				
Science Found I	3 hrs	Science Found II	3 hrs	
ECO 2013 or ECO 2023	3 hrs	HFT 2220	3 hrs	
HFT 2500	3 hrs	HFT 2401	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		16 hrs	Spring	16 hrs
Fall				
HFT 3792 Evt Design	3 hrs	HFT 4802	3 hrs	
FSS 2221C	3 hrs	HFT 4286	3 hrs	
HFT 3431	3 hrs	HFT 4464	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		13 hrs	Spring	15 hrs
Fall				
HFT 4757	3 hrs	HFT 4791 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 Contact: Linda Alexander, 407-823-2598;

E-mail: laalexand@mail.ucf.edu;

Program Coordinator: Dr. Lee Cross; E-mail: lcross@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.
- Meet the foreign language admission 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 <http://www.fldoe.org> for available test dates and test sites.
 - FTCE General Knowledge Test (GKT) – Passing score required prior to Internship I
 - FTCE Professional Education Test (PED).
 - FTCE Subject Area Examination for Exceptional Student Education K-12.
 - Must take and pass one of the following content area subject area examinations
 - o Elementary K-5 or
 - o Secondary 6-12 or
 - o Integrated Curriculum 6-9
- Students must earn a "C-"(1.75) 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 1608	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, <i>or</i> LIT 2120 World Literature II, <i>or</i> PHI 2010 Introduction to Philosophy, <i>or</i> 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 <i>or</i> MGF 1107	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 advised to take the preferred courses.

2. Education Common Program Prerequisites	(9 hrs)
EDF 2005 Introduction to the Teaching Profession	3 hrs
EDF 2085 Introduction to Diversity for Educators	3 hrs
EME 2040 Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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. See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4240 Issues in Second Language Acquisition	3 hrs
RED 4519 Diagnostic & Corrective Reading Strategies	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 required to take the Professional Education Test (PEd) after completion of Semester I and II, but prior to Semester III and IV. It is required to take the Exceptional Student Education (ESE) Subject Area Exam portion of the Florida Teacher Certification Exam (FTCE) during Semester III and prior to Semester IV.

- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicalexp/>.
- 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
EEX 4601* Introduction to Behavior Management	3 hrs
EEX 4763 Technology for Classroom Teachers of Students with Special Needs	3 hrs
RED 4942 Pract for Assessment and Instruct of Reading	3 hrs
Methods Content Area Course I – 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 <http://education.ucf.edu/clinicalexp/>.
- 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 is strongly recommended before entry into student teaching (EEX 4943 Internship II).

Semester V	(12 hrs)
EEX 4943 Student Teaching – Internship II	9 hrs
Methods Content Area Course II – Select one from:	3 hrs
SCE 3310 Teaching Science in Elementary School <i>or</i>	
SSE 3312 Teaching Social Science in the Elementary School <i>or</i>	
LAE 3414 Literature for Children	

- 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 LiveText 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 (FTCE).

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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

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.

UCF Degree Programs

Freshman Year

Fall	12 hrs	Spring	15 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	3
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
MGF 1106 Finite Mathematics	3	EDF 2130 Child and Adol Dev Ed	3
PSY 2012 General Psychology	3	PSC 1121 Physical Science	3
		REL 2300 World Religions <i>or</i>	3
		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 Intro to Tech for Educators

Sophomore Year

Fall	12 hrs	Spring	12 hrs
SPC 1608 Fund of Oral Comm	3	AMH 2020 U.S. History 1877-present	3
AMH 2010 U.S. History 1492-1877	3	EEX 2758* Enhance Fmly Involve Ed 2	3
ANT 2511 The Human Species <i>or</i>	3	EDF 2720 Child in Sch: Legal, Ethical and Safety Concerns	3
BSC 1005 Biological Principles	3	MAE 2801 Elem School Math	4
STA 2014C Princ of Stats <i>or</i>	3		
STA 1060C Basic Stats using MS Excel			
Summer	3 hrs		
EEX 2010 Intro to Special Ed	3		

*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 Except	3
TSL 4080 Theory & Prac of Teach	3	Adolescents and Adults	
ESOL Students in Schools	3	LAE 4314 Lang Arts in the Elem Sch	3
EEX 3241 Methods of Academic Skills	3	EDF 4467 Learn Theory & Assmt	3
for Except Students		TSL 4240 Issues in 2nd Lang	3
RED 3012 Basic Found of Read	3	Acquisition	
		RED 4519 Diag & Corr Rdg	3

Note: It is strongly recommended to take the Professional Education Test (PET) 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 4943 Student Teaching - Internship II	9
of Students with Special Needs		Select Methods Content II*	3
EEX 4601 Intro to Behavior Management	3		
EEX 3942 Internship I	3		
RED 4942 Pract for Assess	3		
Select Methods Content I*	3		

*Methods Content Area Course – Choose one from (must be different from the course selected during Senior Year Fall Term):

SCE 3310, SSE 3312, LAE 3414, **MAE 4326, SCE 4360, SSE 4361, LAE 4360, RED 4043, MAE 4360

**To enroll in this course, you must be registered for EEX 3942 Internship I.

FILM - B.F.A.

College of Arts and Humanities

Film, NSC 121, 407-823-4285

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

E-mail: film@mail.ucf.edu

Department Chair: 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 Department Chair.
- 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 Department for details or visit the Web site, <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 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 Department.
- 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 2030 3 hrs
 - Prefer one class from either 1.B.1 *or* 1.B.2 3 hrs
- C. Mathematical Foundations
 - Select MGF 1106 *or* MGF 1107 3 hrs
 - (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 Prerequisites

(3 hrs)

- FIL 2030* History of the Motion Pictures
- FIL 1007 Foundations of Story

GEP 3 hrs

*See Transfer Notes for possible substitutions

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Lower Level Core Requirements

(21 hrs)

- DIG 2000 Introduction to Digital Media 3 hrs
- FIL 2107 Script Analysis 3 hrs
- FIL 1009 Cinematic Expression for Majors 3 hrs
- FIL 2552 Editing I 3 hrs
- FIL 2480 Directing I 3 hrs
- FIL 2461 Cinematography I 3 hrs
- FIL 2481 Directing the Actor for Film I 3 hrs

4. Upper Level Core Requirements

(36 hrs)

- FIL 3115 Short Script I 3 hrs
 - FIL 3132 Short Script II 3 hrs
 - FIL 3427C Intro to Film Production 3 hrs
 - FIL 3534 Sound Design for Film I 3 hrs
 - FIL 3036 Film History I 3 hrs
 - FIL 3037 Film History II 3 hrs
 - FIL 3803C 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 4661 The Film Producer 3 hrs
 - FIL 4647 Film Production Management 3 hrs

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

- DIG 4704C Interactive Entertainment
- FIL 3363C Film Documentary
- FIL 4472C Cinematography II
- FIL 4535C Sound Design for Film II
- FIL 4536 Sound Design for Film III
- FIL 4451 Design for Film
- FIL 4487 Directing III
- FIL 4566C Editing II

■ Screen Writing

- FIL 4103 Adaptation
- FIL 4162C Feature/TV Writing
- FIL 4163C Feature/TV Writing II
- FIL 4113C Interactive Writing I

FIL 4114C	Interactive Writing II
FIL 4126C	Genre Writing
FIL 4906	Independent Study

■ Cinema Studies

FIL 3880C	Women in Film
FIL 3831	Black Cinema
FIL 3051	Avant-Garde Cinema
FIL 3804C	Film Theory and Criticism II
FIL 3841	French New Wave Cinema
FIL 3824	Italian Neo-Realist Cinema
FIL 3847	Latin American Cinema
FIL 3820	Italian Film
FIL 3822	French Film
FIL 3823	German Film
FIL 3826	American Cinema
FIL 3871	American Film Artist
FIL 4436	Film Theory/Film/Production

■ Digital Cinema

ART 2820	Art as Interface
ART 3618C	Post-Production Design
COP 3502C	Computer Science I
DIG 4855C	Converging Media
DIG 3138C	Digital Imagery
DIG 4780C	Modeling for Realtime Graphics
ENC 4415	Digital Rhetoric & Modern Dialectic
DIG 3134	Internet Software Design
MUC 3311	MIDI Sequencing I

6. Capstone Courses

FIL 4434C	Capstone I	(6 hrs)
FIL 4573C	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 or FIL 2552.
- Department of Film requires an exit interview.

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 2030 may substitute FIL 1000, but FIL 2030 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

FILM - CINEMA STUDIES TRACK (B.A.)

College of Arts and Humanities

Film, COMM 121, 407-823-4285

<http://www.film.cah.ucf.edu>

E-mail: film@mail.ucf.edu

Department Chair: 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 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 2030	3 hrs
Prefer one course from 1.B.1 <i>or</i> 1.B.2 list	3 hrs
C. Mathematical Foundations	
Select MGF 1106 <i>or</i> MGF 1107	3 hrs
(may substitute a higher level math)	
Prefer CGS 1060C <i>or</i>	3 hrs
STA 1060C	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Requirements

(3 hrs)

FIL 2030*	History of the Motion Pictures	GEP
FIL 1007*	Foundations of Story	3 hrs

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(48 hrs)

DIG 2000	Introduction to Digital Media	3 hrs
FIL 1008	Cinematic Expression/Aesthetics	3 hrs
FIL 2107	Script Analysis	3 hrs
FIL 2423	Foundations of Production	3 hrs
FIL 3006	Art of the Cinema	3 hrs
FIL 3102	Writing for Film and TV <i>or</i>	3 hrs
FIL 3115	Short Script	
FIL 3462C	Cinematic Expression	3 hrs
FIL 3363C	Film Documentary	3 hrs
FIL 3036	Film History I	3 hrs
FIL 3037	Film History II	3 hrs
FIL 3051	Avant-Garde Cinema	3 hrs
FIL 3803C	Film Theory and Criticism I	3 hrs
FIL 3804C	Film Theory and Criticism II	3 hrs
FIL 3845	World Cinema Traditions	3 hrs
FIL 3826	American Cinema	3 hrs
FIL 4661	The Film Producer	3 hrs

UCF Degree Programs

4. Restricted Upper Division Electives

(9 hrs)

Select three courses from the following upper level FIL courses:

DIG 4855C	Converging Media
DIG 4704C	Interactive Entertainment
FIL 3850	Cinema Director
FIL 3880C	Women in Film
FIL 3041	History of Animated Films
FIL 3831	Black Cinema
FIL 3841	French New Wave Cinema
FIL 3824	Italian Neo-Realist Cinema
FIL 3847	Latin American Cinema
FIL 3841	International Cinema
FIL 3820	Italian Film
FIL 3822	French Film
FIL 3823	German Film
FIL 3852	Cinema Criticism (writing)
FIL 3871	American Film Artist
FIL 4436	Film Theory/Film Production
FIL 4906	Independent Study
FIL 5612	Film and Internet Business

(a maximum of six 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 or FIL 1008.

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, 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

- FIL 2030 may substitute FIL 1000, but FIL 2030 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

FILM - WORLD CINEMA TRACK (B.A.)

College of Arts and Humanities

Film, COMM 121, 407-823-4285

<http://www.film.cah.ucf.edu>

E-mail: film@mail.ucf.edu

Department Chair: 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 Cinema 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.
- 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 2030	3 hrs
Prefer one course from 1.B.1 or 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 or MGF 1107	3 hrs
(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 2030*	History of Motion Pictures	GEP
FIL 1007*	Foundations of Story	3 hrs

*See Transfer Notes for possible substitutions

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(57 hrs)

DIG 2000	Introduction to Digital Media	3 hrs
FIL 1009	Cinematic Expression for Majors	3 hrs
FIL 2107	Script Analysis	3 hrs
FIL 2461	Cinematography I	3 hrs
FIL 2480	Directing I	3 hrs
FIL 2552	Editing I	3 hrs
FIL 3115	Short Script I	3 hrs
FIL 3427C	Introduction to Film Production	3 hrs
FIL 3534	Sound Design for Film I	3 hrs
FIL 3363C	Film Documentary	3 hrs
FIL 3304C	Documentary Vision	3 hrs
FIL 3307	Docudrama	3 hrs
FIL 3036	Film History I	3 hrs
FIL 3803C	Film Theory and Criticism I	3 hrs
FIL 3845	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 4647	Film Production Management	3 hrs

4. Upper Level Restricted Electives

(9 hrs)

Select three of the following

FIL 3804C	Film Theory and Criticism II
FIL 3847	Latin American Cinema
FIL 4844	Africana Cinema
FIL 4808	Images & Text in Context
FIL 4661	The Film Producer

Additional courses may be acceptable. Consult your advisor.

5. Capstone		(6 hrs)
FIL 4434C	Capstone I	3 hrs
FIL 4573C	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 **or** FIL 2552.
- 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 2030 may substitute FIL 1000, but FIL 2030 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

FINANCE (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu/finance>

Not eligible for a double degree with another College of Business Administration major

Admissions Requirements

- Completion of the UCF General Education Program, and Gordon Rule, 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
Preferred: SPC 1608 Fund of Oral Communication	
B. Cultural and Historical Foundations	9 hrs

C. Mathematical Foundations	
Select MAC 1140 Pre-Calculus	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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes

(36 hrs)

First or subsequent semester in the College of Business

Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3375	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403C	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011C	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 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 3403C 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 3461	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

UCF Degree Programs

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$30 per term
- Part-time Student\$15 per term

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 1608	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 3375	4	FIN 3414	3
MAR 3023	4	FIN 3504	3
FIN 3403C	4	ECO 3411	4
		MAN 3025	4

Senior

1st Term	14 hrs	2nd Term	13 hrs
BUL 3130	4	MAN 4720	4
ISM 3011C	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 2100 (Personal Finance) as a general elective, prior to the junior year.

FOREIGN LANGUAGE EDUCATION - FRENCH (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://www.education.ucf.edu/language>

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.
- Meet the foreign language admission 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 1608 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 or MGF 1107 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

UCF Degree Programs

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 the Teaching Profession	3 hrs
EDF 2085 Introduction to Diversity for Educators	3 hrs
EME 2040 Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Other Program Requirements	(6 hrs)
EDG 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 4242# 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 required 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)
FLE 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 <http://www.education.ucf.edu/clinicalexp/>.

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.education.ucf.edu/clinicalexp/>.

8. Internship II	(12 hrs)
FLE 4941 Internship II	12 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-5.066.

9. 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.)

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
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Consult with your Education advisor and review your degree audit for more recent information.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

13. Recommended Four Year Sequence of Courses

Freshman Year			
Fall	12 hrs	Spring	12 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	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			
EME 2040 Intro to Tech 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 Interim French Lang Civ II	3
SPC 1608 Fund of Oral Comm	3	ANT 2511 The Human Species <i>or</i>	3
STA 2014C Principles of Statistics <i>or</i>	3	BSC 1005 Biological Principles	
STA 1060C Basic Stat MS Excel	3	PHI 2010 Intro to Philosophy	3
EEX 4242 Teach Ex Stud in Sec Settg	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 Students in Schools	3

UCF Degree Programs

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
FLE 3940 Internship I	3	FLE 4941 Internship II	12
FRE 4421 Adv French Convers	3		
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/language>

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.
- Meet the foreign language admission 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 1608 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 or MGF 1107	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 the Teaching Profession	3 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, a minimum of six hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Other Program Requirements

(6 hrs)

EDF 2130**	Child & Adolescent Development for Educators	3 hrs
SPN 2201*	Intern 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 4242#	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 required 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)

FLE 3940	Internship I	3 hrs
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- 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 <http://www.education.ucf.edu/clinicaexp/>.

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:

SPN 3852	Bilinguismo or
SPN 4800	Spanish American Syntax or
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 <http://www.education.ucf.edu/clinicaexp/>.

9. Internship II Block (12 hrs)

FLE 4941 Internship II 12 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-5.066.

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.
Program Academic Learning Compacts
Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

14. Recommended Four Year Sequence of Courses

Freshman Year

Fall	12 hrs	Spring	12 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	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 Intro to Tech 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 1608 Fund of Oral Comm	3	BSC 1005 Biological Principles	3
STA 2014C Principles of Statistics	3	ANT 2511 The Human Species	3
STA 1060C Basic Stat MS Excel	3	PHI 2010 Intro to Philosophy	3
EEX 4242 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 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 II	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	3
SPN 3760 Adv Span Oral Comm	3	SPW 3130 Survey of Latin Am Lit I	3
		Upper division restricted elective (SPN 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
FLE 3940 Intern I	3	FLE 4941 Internship II	12
Select one			
SPN 4410 Adv Span Conversation	3		
SPN 4421 Adv Spanish Comp	3		
SPN 4510 Spanish Civil & Cult	3		
SPN 4520 Latin Am Civil & Cult	3		
Select one			
SPN 3852 Bilinguismo	3		
SPN 4800 Spanish American Syntax	3		
SPN 4801 Spanish Morphosyntax	3		
Select one			
SPW 3130 Survey of Latin Am Lit I	3		
SPW 3131 Survey of Latin Am Lit II	3		

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 1603	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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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

UCF Degree Programs

MAC 2311	Calculus w/ Anal Geometry I
MAC 2312	Calculus w/ Anal Geometry II
PHY 2048&L	Physics Engr. & Sci. I & Lab
PHY 2049&L	Physics Engr. & Sci. II & Lab

CPP
CPP
CPP
CPP

4. Forensic Science Core

CHS 3501	Intro to Forensic Science	(18 hrs)
CHS 3505C	Forensic Microscopy	3 hrs
CHS 4537	Forensic Lab Quality Assurance	4 hrs
CHS 3595	Foren Sci in the Courtroom	2 hrs
CHS 3533	Forensic Biochemistry I	3 hrs
CHS 4591	Forensic Science Internship	2 hrs

5. Forensic Analysis Track

a. Required Courses

CHM 3422	Applied Physical Chemistry	(28 hrs)
CHM 4130	Adv Analytical Lab Technique	(16 hrs)
CHM 4130L	Adv Analytical Chem Lab	3 hrs
CHS 3511C	Trace Evidence	3 hrs
CHS 3530C	Foren Anal of Controlled Subs	2 hrs

b. Select 12 hours from the following:

ANT 4521C	Forensic Anthropology	(12 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 2253 & 2254 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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

Take Chemistry Placement Test ~ <http://chemplacement.sdes.ucf.edu/>

Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall	Spring
BSC 2010C Biology I	4 PHY 2048 Phy for Eng Sci I
ENC 1101 Composition I	3 PHY 2048L Phy L Eng Sci I
MAC 2311 Calc Anal Geo I	4 CHM 2046 Chemistry Fund II
CHM 2045C Chemistry Fund I	4 CHM 2046L Chemistry Fund L
	MAC 2312 Calc Anal Geo II
	CHS 3501 Intro to For Sci

Sophomore Year

Fall	Spring
MUL 2010* req# 1B2-GEP	3 EUH 2001* req# 1B1-GEP
SPC 1603 Tech Presentations	3 CHM 2211 Organic Chm II
STA 2023 Stat Methods I	3 CHM 2211L Organic L Tech I
PHY 2049 Phy for Eng Sci II	3 ANT 4521C* req# 5b-RElect
PHY 2049L Phy L Eng Sci II	1 ENC 1102 Composition II
CHM 2210 Organic Chm I	3

Junior Year

Fall	Spring
CHM 3120 Analy Chemistry & L	4 CHM 4912 Elective
PCB 3063 Genetics	3 REL 2300* req# 1B3-GEP
PCB 3063L Genetics L	1 CHS 3595 For Sci in the Cr
CHS 3505C Forensic Mic	4 CHM 4130 Adv Analy L Tech
CHS 4537 For L Qual Assur	2 BCH 4053* req# 5b-RElect
	CHM 4130L Adv Analy Chm L

Senior Year

Fall	Spring
PCB 3233 Immunology	3 POS 2041* req# 1D1-GEP
PCB 3233L Immunology Lab	1 CHS 4515C* req# 5b-RElect
CHS 3533 Forensic Biochem I	2 PSY 2012* req# 1D2-GEP
CHM 3422 Applied Phy Chm	3 CHS 3511C Trace Evidence
CHS 3530C Forensic analysis	4 ABC Exam See catalog
Elective* Check restrictions	3
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 1603	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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 2253 & 2254 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oaas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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

Take Chemistry Placement Test ~ <http://chemplacement.sdes.ucf.edu/>
Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall	Spring	
BSC 2010C 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

UCF Degree Programs

Sophomore Year

Fall	Spring	
EUH 2000* req# 1B1-GEP	3 MUL 2010* req# 1B2-GEP	3
SPC 1603 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 Crt	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 Bloch 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://mll.cah.ucf.edu/>

E-mail: forlang@mail.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	
Select MGF 1106 Finite Mathematics <i>or</i> MGF 1107 (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)

FRE 1120C*	Elem French Lang & Civ I	4 hrs
FRE 1121C*	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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements

(21 hrs)

FRE 3300*	Advanced Grammar	3 hrs
FRE 3420*	French Composition	
	<i>or</i>	3 hrs
FRE 4422	Advanced French Composition	
FRE 3760*	Adv French Oral Communication	
	<i>or</i>	3 hrs
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 (taught in French)	6 hrs
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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

GENERAL BUSINESS (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

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

Not eligible for a double degree with another College of Business Administration major

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, and Gordon Rule, 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 |
| Preferred: SPC 1608 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| Select MAC 1140 Pre-Calculus | 3 hrs |
| Select CGS 2100C 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 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes (36 hrs)

First or subsequent semester in the College of Business Administration:

- | | | |
|-----------|---|-------|
| GEB 3031 | Cornerstone (Required in 1st or 2nd semester) | 4 hrs |
| GEB 3375 | Introduction to International Business | 4 hrs |
| BUL 3130 | Legal & Ethical Environments of Business | 4 hrs |
| ECO 3411 | Quantitative Business Tools II | 4 hrs |
| FIN 3403C | Business Finance | 4 hrs |
| MAN 3025 | Management of Organizations | 4 hrs |
| ISM 3011C | 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:

- Must complete all Gordon Rule requirements, prior to admission to this degree.
- 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):

(15-16 hrs)

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 | 3 hrs |
| FIN 3414 | Intermediate Corporate Finance | 3 hrs |
| FIN 3504 | Investment Analysis | 3 hrs |
| Management | | |
| MAN 3301 | Management of Human Resources | 3 hrs |
| MAN 4240 | Organizations: Theory and Behavior | 3 hrs |
| MAN 4441 | Conflict Resolution and Negotiation | 3 hrs |
| GEB 3113 | How to Start a Business | 3 hrs |
| Management Information Systems | | |
| ISM 3253 | MIS Techniques | 4 hrs |
| ISM 4153C | Enterprise Information Systems | 3 hrs |
| ISM 4154 | Enterprise Application Development | 3 hrs |
| Marketing | | |
| MAR 3613 | Marketing Research & Analysis | 3 hrs |
| MAR 3403 | Sales Force Management | 3 hrs |
| MAR 4841 | Service Marketing | 3 hrs |
| MAR 4156 | International Marketing | 3 hrs |
| Economics* | | |
| ECO 3223 | Money and Banking | 3 hrs |
| ECP 3203 | Contemporary Labor Economics | 3 hrs |
| ECP 4703 | Managerial Economics | 3 hrs |

*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.

UCF Degree Programs

- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$30 per term
- Part-time Student \$15 per term

FOUR YEAR PLAN OF STUDY - ALL GENERAL BUSINESS

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 1608	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100C*	3

Must complete nine hours in a summer term

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 BUSINESS MAJOR

Junior

1st Term	16 hrs	2nd Term	15 hrs
GEB 3031	4	Required MAN Course	3
BUL 3130	4	MAR 3023	4
ISM 3011C	4	ECO 3411	4
MAN 3025	4	FIN 3403C	4

Senior

1st Term	16 hrs	2nd Term	13 hrs
GEB 3375	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.)

A.S. to B.S. TRACK

Note: For detailed information, see description of this program in the Statewide Articulated AS to BS Programs section.

HEALTH INFORMATION MANAGEMENT (B.S.)

College of Health and Public Affairs

Department of Health Management and Informatics

HPA2 210, 407-823-2353

<http://www.cohpa.ucf.edu/hmi/bshim.cfm>

Undergraduate Program Director: Alice M. Noblin, RHIA;

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 are pending Health Information Management and are admitted to the program 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 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 Management Program
- UCF Residency Requirement: 30 hours

1. UCF General Education Program

(37 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
- E. Science Foundations 7 hrs
 - Select BSC 2010C
 - Select CHM 1032

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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(66 hrs)

- HSC 3147 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 3537 Medical Terminology 3 hrs
- HSC 4652 Health Law & Ethics 3 hrs
- HSC 4555 Pathophysiologic Mechanisms 3 hrs
- HSA 4180 Organization /Management for Health Agencies 3 hrs
- or MAN 3025 Management of Organizations

UCF Degree Programs

HIM 3006	Foundations of Health Information Management	3 hrs
HIM 3116C	Health Record Organization & Management	4 hrs
HIM 3806C	Professional Practice Exp. I	3 hrs
HIM 4816C	Professional Practice Exp. II	3 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 4656C	Health Information Management Systems	3 hrs
HIM 4838	Management Affiliation	5 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
Financial Accounting (ACG 2021)	3
Managerial Accounting (ACG 2071)	3
Statistics (STA 2014C or any other statistics course)	3
Computer Science for Business (CGS 2100C)	3

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$30 per term
- Part-time Student\$15 per term

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	3	ACG 2071	3
ZOO 3733C	4	PCB 3703C	4
EUH 2001 or HUM 2230 or AMH 2020	3	SPC 1608	3
CGS 2100C	3	One Course: ARH 2050	3
		ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	

Junior Year

Fall	15 hrs	Spring	15 hrs
HSA 4191**	3	HIM 4226C	5
HSC 4555**	3	HIM 3116C	4
HIM 3006	3	HIM 3806C	3
MAN 3025** or HSA 4180	3	HSC 3147	3
HSC 3537**	3		
	6 hrs		
HSA 4109	3		
HSC 4652**	3		

Senior Year

Fall	13 hrs	Spring	12 hrs
HIM 4344C	4	HIM 4676	3
HIM 4656C	3	HSA 3170**	3
HIM 4506C	3	HIM 4816C	3
HIM 4256C	3	HSA 4702**	3
	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
Department of Health Professions**

HPA2 208, 407-823-2747

<http://www.cohpa.ucf.edu/health.pro/athletic>

Undergraduate Program Director: Kristen C. Schellhase, MEd, ATC, CSCS, E-mail: kschellh@mail.ucf.edu

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 by March 1st. 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 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.

UCF Degree Programs

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 they believe that, with certain accommodations, they can meet the standards. The 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 of 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 are Health Sciences Athletic Training Pending and are admitted to the 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

A. Communication Foundations	(36 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
Select BSC 2010C	
Select CHM 2045C	

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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 I	2 hrs
PET 3607L	Practicum in Athletic Training I	4 hrs
HSC 3147	Introduction to Pharmacology	3 hrs
PET 3623C	Recognition and Evaluation of Athletic Injuries I	3 hrs
PET 3649C	Clinical Skills for Athletic Training II	2 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
PET 4630C	Therapeutic Exercise in Athletic Training	4 hrs
PET 4632C	Therapeutic Modalities in Athletic Training	4 hrs
PET 4660C	Organization and Administration 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	3 hrs
PET 4672L	Practicum in Athletic Training III	4 hrs
PET 4606	Applied Fitness in Sport	3 hrs
PET 4673L	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 an Approved Clinical Instructor (ACI).

6. Electives (variable)

Suggested electives relate to Health Sciences, Business, Education, Health Services Administration, Health Information Management, Radiological Sciences, Psychology, and Sports & Fitness.

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 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: Business, Public Administration, Sports and Fitness, Health Services Administration, Health Information Management, Health Sciences - Pre-Clinical Track

Related Minors: Business, Computer Sciences, Aging Studies, Biology, Coaching, Fitness Training, Health Information Management, Health Sciences, Health Services Administration, Education, 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$15 per term
- Part-time Student \$7.50 per term

Tentative Course Schedule for Entering Freshmen

Freshman Year			
Fall	15 hrs	Spring	13 hrs
ENC 1101	3	ENC 1102	3
PSY 2012	3	POS 2041	3
HSC 2000	2	BSC 2010C	4
MAC 1105	3	MAC 1114	3
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	3
STA 2023	3	HUN 2002	3
EUH 2000 or HUM 2210	3	PCB 3703C	4
or AMH 2010 or WOH 2012		SPC 1608	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	12 hrs
PET 3670L	4	PET 3XXX	2
PET 3633C	2	PET 3623C	3
PET 4624C	3	PET 4315C	3
HSC 3147	3	PET 3671L	4
Elective*		Elective*	
Summer			
PET 4630C	4		
PET 4632C	4		
Senior Year			
Fall	13 hrs	Spring	11 hrs
PET 4660C	3	PET 4674	1
PET 3510C	3	PET 4606	3
PET 4636C	3	PET 4673L	4
PET 4672L	4	PET 4604	3
		Elective*	

*As needed to meet 120 hours of departmental exit requirement

HEALTH SCIENCES - Pre-Clinical Track (B.S.)

College of Health and Public Affairs

Department of Health Professions

HPA2 203, 407-823-6761

<http://www.cohpa.ucf.edu/health.pro/hsgbs.cfm>

Undergraduate Program Director: David M. Segal, PhD,

E-mail: dsegal@mail.ucf.edu

The Health Sciences-Pre-Clinical Track is a preparatory program for graduate level clinical disciplines for the student who wishes to seek admission to graduate level clinical programs in physical therapy, occupational therapy, pharmacy, physician assistant, and

medicine. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Admission Requirements:

none

Degree Requirements

- Students who change to Health Sciences Pre-Clinical Track must adopt the most current catalog.
- Students should complete the General Education Program and the 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 Program Prerequisite and Core Requirement (see sections 2, 3 and 4 below)
- No transfer course will be accepted with a grade lower than a "C" (2.0).
- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty.
- Courses listed in math, biology, chemistry and physics are the minimum levels. Students with adequate preparation are encouraged to enroll in higher course levels in the discipline.

1. UCF General Education Program

(38 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 1105 College Algebra Select STA 2014C Principles of Statistics or STA 2023 Statistical Methods I	
D. Social Foundations	6 hrs
Select ECO 2013 Principles of Macroeconomics or ECO 2023 Principles of Microeconomics Select PSY 2012 General Psychology	
E. Science Foundations	8 hrs
Select BSC 2010C Biology I and Lab 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
ECO 2013	Principles of Macroeconomics or	GEP
ECO 2023	Principles of Microeconomics	
PSY 2012	General Psychology	GEP

3. Core Requirements - Lower Division

(32 hrs)

CGS 1060C	Intro to Computer Science or	3 hrs
CGS 2100C	Computer Fundamentals for Business	
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	5 hrs
DEP 2004	Developmental Psychology	3 hrs
HSC 2000	Intro to the Allied Health Professions	2 hrs
HUN2002	Modern Concepts in Nutrition	3 hrs
MCB 2004C	Microbiology for Health Professionals	4 hrs
PHY2053C	College Physics I and Lab (not for Sci and Eng)	GEP
PHY2054C	College Physics II and Lab (not for Sci and Eng)	4 hrs

4. Core Requirements - Upper Division

(29 hrs)

Basic and Health Sciences			(14 hrs)
HSC3147	Introduction to Pharmacology		3 hrs
HSC 4555	Pathophysiologic Mechanisms		3 hrs
PCB 3703C	Human Physiology and Lab		4 hrs
ZOO 3733C	Human Anatomy and Lab		4 hrs
Health Services			(15 hrs)
HSA 3111	US Healthcare Systems		3 hrs
HSC 4652	Health Law & Ethics		3 hrs
HSC 4500	Epidemiology		3 hrs
HSA 4702	Health Sciences Research Methods		3 hrs
HIM 4506C	Quality Management		3 hrs

UCF Degree Programs

5. Upper Division Restricted Electives: (21 hrs)

A minimum of 7 courses from the list below

(Enrollment in MLS, Athletic Training and Medical Pharmacology courses is restricted. Some courses below may have additional prerequisite courses required. Course selection should be in consultation with an advisor and may vary by student depending on individual needs and objectives. Laboratory courses are required with selection of science classes.)

HSA 3430	Health Care Economics	3 hrs
HSA 4180	Org & Mgt of Health Agencies	3 hrs
HSC 3110C	Medical Self Assessment	3 hrs
HSC 3537	Medical Terminology	3 hrs
*HSC 4158	Medical Pharmacology I	2 hrs
*HSC 4159	Medical Pharmacology II	2 hrs
HSC 4564	Healthcare Needs of the Elderly	3 hrs
HSC 3593	HIV Disease	3 hrs
*HSC 3930	Preventive Healthcare	3 hrs
PET 3620	Principles of Athletic Training	3 hrs
PET 3633C	Clinical Skills for Athletic Trainers I	2 hrs
PET 3649C	Clinical Skills for Athletic Trainers II	2 hrs
PET 4606	Applied Fitness in Sport	3 hrs
*PCB 3233	Immunology	3 hrs
*PCB 3233L	Immunology Lab	1 hr
*PCB 3063	Genetics	3 hrs
*PCB 3063L	Genetics Lab	1 hr
*PCB 4805	Endocrinology	3 hrs
*BCH 4053	Biochemistry I	3 hrs
*MCB 3020C	General Microbiology	5 hrs
*MCB 3203	Pathogenic Microbiology	3 hrs
*MCB 3203L	Pathogenic Microbiology Lab	1 hr
*MCB 4503C	Virology	3 hrs
*ZOO 3744	Neurobiology	3 hrs
*ZOO 4704C	Clinical Neuroanatomy & Neuroscience	4 hrs
*ZOO 4605	Human Clinical Embryology	3 hrs
RTE 4762	Anatomy for the Medical Imager	3 hrs

*Recommended for Preprofessional students

6. Unrestricted Electives (variable)

Students who transfer in with a Florida public community college AA degree may need to take upper-level electives to reach the University requirement of 48 semester hours of upper division credit. Students are encouraged to choose courses that are pre-requisites for specific graduate clinical programs of interest.

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)

- A minimum grade of "C" (2.0) in each program prerequisite course, in each core requirement course, and in each restricted elective (see sections 3 through 5 above). Students should note that graduate programs may require a higher level of performance for admission.
- Students must take a minimum of 30 hours of upper-division courses from the Health Sciences Pre-Clinical major to obtain the UCF degree in Health Sciences-Pre-Clinical Track.
- Students are required to have a personal interview after filing Intent to Graduate form online.

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, and Health Services Administration. This program is a preparatory program for graduate level clinical disciplines for the student who wishes to seek admission to graduate level clinical programs in physical therapy, occupational therapy, pharmacy, physician assistant and medicine. Students with this preparation could also pursue

graduate programs in Public Health, Environmental Health or Health Services Administration.

Related Minors: Health Information Management, Biology, Chemistry, Molecular and Microbiology

Transfer Notes: Completion of a Florida public community college 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.

Students who begin a two-semester sequence course (e.g. General Chemistry) at a Florida public 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 Organic Chemistry I (CHM 2210) and Organic Chemistry II (CHM 2211) with labs at a Florida community college in order to meet the University's requirement for Intro to Organic and Biochemistry (CHM 2205).

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 a Florida public community college (lower division) level must take an additional 8 hours of upper division coursework at UCF.

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/academic_learning_compacts.htm

Tentative Course Schedule for Entering Freshmen

Freshman Year		15 hrs	Spring	14 hrs
Fall				
ENC 1101		3	ENC 1102	3
CGS 1060C <i>or</i>		3	CHM 2046 & 2046L	4
CGS 2100C			BSC 2010C	4
CHM 2045C		4	PSY 2012	3
MAC 1105		3		
HSC 2000**		2		
**SLS 2311C (2 credits) is recommended for preprofessional students as a substitution in spring term				
Summer		3 hrs		
MAC 1114		3		
Sophomore Year		16 hrs	Spring	17 hrs
Fall				
PHY 2053C		4	MUL 2010 <i>or</i> REL 2300 <i>or</i>	3
HUN 2002		3	THE 2000 <i>or</i> PHI 2010	
SPC 1608		3	MCB 2004C	4
EUH 2000 <i>or</i> HUM 2210 <i>or</i>		3	PHY 2054C	4
AMH 2010			EUH 2001 <i>or</i> HUM 2230 <i>or</i>	3
STA 2014C <i>or</i> STA 2023		3	AMH 2020	
			ECO 2023 <i>or</i> ECO 2013	3
Summer (if needed)				
Foreign Lang I*		4		
Foreign Lang II*		4		
*If not satisfied in high school.				
Junior Year		16/17 hrs	Spring	15/16 hrs
Fall				
DEP 2004		3	HSC 4652	3
HSA 3111		3	CHM 2205	5
HSC 3147		3	PCB 3703C	4
ZOO 3733C		4	Restricted Elective	3/4
Restricted Elective		3/4		
Senior Year		15/18 hrs	Spring	12/14 hrs
Fall				
HSA 4702		3		
HSC 4555		3	HSC 4500	3
Restricted Elective		3/4	HIM 4506C	3
Restricted Elective		3/4	Restricted Elective	3/4
Restricted Elective		3/4	Restricted Elective	3/4

HEALTH SERVICES ADMINISTRATION (B.S.)

College of Health and Public Affairs

Department of Health Management and Informatics HPA2 210, 407-823-2359

<http://www.cohpa.ucf.edu/hmi/>

Executive Director of HSA Programs: Myron Fottler, PhD;

Undergraduate Program Director: Kendall Cortelyou-Ward, PhD,
E-mail: hsainfo@mail.ucf.edu

This program is currently available online and in the classroom. Students who choose to take online courses are urged to complete either CGS 2100C or CGS 1060C prior to enrolling in online-based courses. After enrolling in online courses, students should visit <http://learn.ucf.edu>. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available online. Prerequisite courses are rarely offered online. 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.
- HSA Residency Requirement: Students must complete at least 45 credit hours of the core requirements at UCF in the HSA Program.

1. UCF General Education Program (36 hrs)

- | | |
|------------------------------------|-------|
| A. Communication Foundations | 9 hrs |
| Prefer SPC 1608 | |
| 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 2100C | Computer Fund for Business Applications or | GE |
| CGS1060C | Intro to Computer Science | |
| ECO 2023 | Microeconomics | GE |
| ACG 2021 | Financial Accounting | 3 hrs |
| ACG 2071 | Managerial Accounting | 3 hrs |
| STA 2023 | Statistical Methods | 3 hrs |

Students must earn a "C" (2.0) or better in each Common Program Prerequisite course.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements (48 hrs)

- | | | |
|-----------|---|-------|
| 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 3430 | Health Care Economics | 3 hrs |
| HSA 4109 | Principles of Managed Care | 3 hrs |
| HSC 4201 | Community Health Services | 3 hrs |
| HSA 4180 | Organization and Management for Health Agencies I | 3 hrs |
| HSA 4191 | Health Care Automation | 3 hrs |
| HIM 4506C | Quality Management | 3 hrs |
| HSA 4702 | Health Sciences Research Methods | 3 hrs |
| HSC 3537 | Medical Terminology | 3 hrs |
| HSC 4500 | Epidemiology | 3 hrs |
| HSC 4564 | Health Care Needs of the Elderly | 3 hrs |
| HSC 4652 | Health Care Law & Ethics | 3 hrs |
| HSA 4184 | Organization & Management for Health Agencies II | 3 hrs |
| HSA 4941 | Health Services Administration Internship | 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 course.
- Students must complete 3-9 credit hours of internship prior to graduation. To be eligible to participate in the internship program, students must have a major GPA of a 2.5.
- At least 45 of the 51 core credit hours must be completed at UCF.

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 Information Management, Health Sciences, Aging Studies, Public Administration, 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 who transfer with an AA degree from a Florida public community college 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: Public Administration, Health Information Management

Related Minors: Aging Studies, Health Information Management, Health Sciences, and Public Administration

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	14 hrs	Spring	12 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 or SYG 2000	3	PSC 1121 or CHM 1020	3
HSC 2000	2	MUL 2010 or THE 2000	3
MAC 1105	3	or REL 2300 or PHI 2010	
Elective	3	SPC 1608	3

Sophomore Year

Fall	15 hrs	Spring	12 hrs
ACG 2021	3	ACG 2071	3
ECO 2023	3	STA 2023	3
BSC 1005	3	EUH 2001 or HUM 2230	3
EUH 2000 or HUM 2210	3	or AMH 2020 or WOH2022	
or AMH 2010 or WOH 2012		Elective/Minor	3
CGS 2100C	3		
Summer	8 hrs		
Foreign Lang. I* or Elective/Minor	4		
Foreign Lang. II* or Elective/Minor	4		
*(If not satisfied in high school)			

Junior Year

Fall	15 hrs	Spring	15 hrs
HSA 3111	3	HSA 3170	3
HSC 3537	3	HSC 4180	3
HSC 4201	3	HSC 4500	3
HSA 4191	3	HSA 3222	3
Elective/Minor	3	Elective/Minor	3

UCF Degree Programs

Senior Year			
Fall	15 hrs	Spring	15 hrs
HSA 3430	3	HSC 4564	3
HSA 4653	3	HSA 4109	3
HSA 4184	3	HSA 4702	3
HSA 4502 <i>or</i> HIM 4506C	3	Internship	3
Elective/Minor	3	HSA 4XXX (Capstone)	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 all over the country. You do not have to reside in Central Florida to complete an internship.

HISTORY (B.A.)

College of Arts and Humanities

History Department, CNH 551

<http://www.history.cah.ucf.edu>

E-mail: history@ucf.edu

Contact: Rosalind J. Beiler, 407-823-2225

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 (see GEP section of catalog) | 3 hrs |
| C. Mathematical Foundations | |
| Prefer MGF 1106 Finite Mathematics <i>or</i> MGF 1107 (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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(9 hrs)

- | | | |
|---------------------|-----------------------------|-------|
| HIS 4150 | History & Historians | 3 hrs |
| Select one sequence | | 6 hrs |
| EUH 2000, 2001 | Western Civilization I & II | |
| 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 throughout major course 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. Students should realize that AMH 2010 and 2020 are prerequisites for all subsequent American history courses in the major.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

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 1608* 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 1120C* req# Lang/Elect	4	SPN 1121C* req# Lang/Elect	4

Junior Year			
Fall		Spring	
HIS 4150 History & Histms	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 the description in the "Accelerated Undergraduate-Graduate Programs" section.

HOSPITALITY MANAGEMENT (B.S.)

Rosen College of Hospitality Management

9907 Universal Boulevard

Orlando, FL 32819

407-903-8000

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

E-mail: hospitality@mail.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 |
|----------|-------------------------------------|-------|
- See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 2401 | 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 3603 | Legal Environment in Hospitality | 3 hrs |
| HFT 4295 | Leadership and Strg Mgmt in Hospitality Ind | 3 hrs |
| HFT 4286 | Hospitality Communications | 3 hrs |
| HFT 4464 | Hospitality Industry Finance | 3 hrs |
| HFT 3933 | Distinguished Lectures in Hosp Mgmt | 1 hr |

5. Sectoral Core (Choose 6 of the Following 7) (18 hrs)

- | | | |
|----------|------------------------------------|-------|
| HFT 2254 | Lodging Operations | 3 hrs |
| HFT 3700 | Tourism Management | 3 hrs |
| 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 two courses (six 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.

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 4614 | Risk Management in Theme Parks | 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 3323 | 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 4457 | 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 3357 | Golf Event Operations | 3 hrs |
| HFT 3384 | Golf and Club Enterprises | 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 |

UCF Degree Programs

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$75 per term
- Part-time Student \$37.50 per term

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 <i>or</i> STA 2023	3	SPC 1608	3
HFT 1000	3	HFT 2500 Hospitality Marketing	3
PSY 2012, SYG 2000 <i>or</i>	3	MAC 1105 College Algebra	3
ANT 2000			

Sophomore			
Fall	15 hrs	Spring	15 hrs
ECO 2013 <i>or</i> ECO 2023	3	Cult/Hist Foundation	3
Science Foundation I	3	Science Foundation II	3
Unrestricted Elective	3	HFT 2401 Hosp Fin Acct	3
HFT 3444 Hosp Info Sys	3	HFT 2220 Hosp Hum Res	3
Operations Core	3	FSS 2221C Quant Food Prep	3

Junior			
Fall	14 hrs	Spring	16 hrs
HFT 3540 Guest Svcs Mgmt	3	Operations Core	3
HFT 3603 Legal Environ	3	Operations Core	3
HFT 3431 Hosp Mgr Acct	3	Operations Core	3
Hospitality Elective	3	HFT 4464 Hospitality Finance	3
HFT 3940 Internship I	1	HFT 4941 Internship II	1
HFT 3933 Dist Lect in Hosp	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	Operations Core	3
Hospitality Elective	3	Hospitality Elective	3
Unrestricted Electives	5	Hospitality Elective	3
Operations Core	3	Hospitality Elective	3

HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. TRACK

Note: For detailed information, see description of this program in the Statewide Articulated AS to BS Programs section.

HUMANITIES (B.A.)

College of Arts and Humanities

Department of Philosophy, PSY 220

<http://www.philosophy.cah.ucf.edu/>

E-mail: philosophy@ucf.edu

Contact: Doug Evans, 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 *or* MGF 1107 (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) (24 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
- CLT 3370 Classical Mythology
- CLT 3378 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

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	
PHI 3790 African 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	
PHI 3638 Ethical Issues in the 21st Century	
PHI 3033 Philosophy, Religion, and the Environment	
PHI 3022 Sexuality, Gender, and Philosophy	
PHM 3123 Feminist Theories	
PHP 3786 Existentialism	
PHP 4782 Phenomenology	
REL 3111 Religion and Philosophy through Film	
REL 3115 Religion, Spirituality, and Popular Music	

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 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 (33 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
- No More than three courses (i.e. nine credit hours) of 3000 or 4000 level courses applied to the B.A. in Humanities may be simultaneously applied to fulfill another major.

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.

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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
HUM 2210 Hum Tradition I	3 HUM 2230 Hum Tradition II
MGF 1106* req# 1C1-GEP	3 STA 1060C* req# 1C2-GEP
HUM 2020 Encountr the Hum	3 REL 2300* req# 1B2-GEP
SPN 1120C* req# Lang/Elect	4 SPN 1121C* req# Lang/Elect

Sophomore Year

Fall	Spring
ANT 2511* req# 1E2-GEP	3 CHM 1020* req# 1E1-GEP
COM 1000* req# 1A3-GEP	3 POS 2041* req# 1D1-GEP
PSY 2012* req# 1D2-GEP	3 HUM 3255* req# 4A1-ClasHu
HUM 3431* req# 4A1-ClasHu	3 HUM 4301 The Clas Ideal
	Elective* Check restrictions

Junior Year

Fall	Spring
ARH 4310* req# 4A2-ClasHu	3 ANT 3245* req# 4A3-ClasHu
CLT 3378* req# 4A2-ClasHu	3 HUM 3417* req# 4A3-ClasHu
JST 3401* req# 4A2-ClasHu	3 PHI 3800* req# 5-ResEle
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

Senior Year

Fall	Spring
Elective* Check restrictions	3 HUM 4933 Senior Res Seminar
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 Elective* Check restrictions
Elective* Check restrictions	4 Elective* Check restrictions

HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)

College of Arts and Humanities

Philosophy Department, PSY 220

<http://www.philosophy.cah.ucf.edu/>

E-mail: philosophy@ucf.edu

Advisor: Doug Evans, 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.

UCF Degree Programs

- 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 *or* PHI 2010 Intro to Phil 3 hrs
- C. Mathematical Foundations 6 hrs
- Prefer MGF 1106 Finite Mathematics *or* MGF 1107 (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 (0 hrs)

- HUM 2210 Humanistic Traditions I
- HUM 2230 Humanistic Traditions II
- PHI 2010 Intro to Philosophy

b. Theoretical Foundations (6 hrs)

- PHI 3684 Ways of Living
- PHI 4341 Ways of Knowing

c. Philosophy (6 hrs)

Select two courses:

- PHI 2108 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

d. Religion (6 hrs)

Select two courses:

- CLT 3378 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

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
- PHM 3020 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

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
- No more than 3 courses (i.e. 9 credit hours) of 3000 or 4000 level courses applied to the B.A. in Humanities: Philosophy, Religion & Popular Culture may be simultaneously applied to fulfill another major.

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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/>

Program Coordinator: Dr. William J. Thompson, P.E.

Admission Requirements:

none

Degree Requirements

Each engineering student is assigned a qualified engineering aca-

ademic 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 the 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 1603 | |
| 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 2048/48L (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. 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Courses Required for the Engineering Core (17 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 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
<i>or</i> EGN 3343	Thermodynamics	
EGN 3373	Principles of Electrical Engineering	3 hrs

4. Courses Required for the Major (43 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 4517	Systems Engineering	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 (5 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

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

	6 hrs ¹
COP 3223 Intro to C Programming	3
*ECO 2013 Macroeconomics or	3
ECO 2023 Microeconomics	

UCF Degree Programs

SECOND YEAR

Fall	13 hrs¹	Spring	15 hrs¹
*PHY 2049/L Phys Engr/Sci II	4	EIN 4517 Systems Engineering	3
STA 3032 Prob & Stats Engrs	3	*MAP 2302 Diff Equations	3
EIN 3000 Intro to IE & Mgt Sys	2	EIN 3310 Engr Anal-Statics	3
*MAC 2313 Calc with Analytic Geo III	4	SPC 1603 Tech Presentations	3
		EIN 4243C Human Engrmg	3

Summer	8 hrs¹
EGN 3613 Engineering Econ Anal	2
*Social Foundations II	3
EGN 3321 Engr Anal-Dynamics	3

THIRD YEAR

Fall	15 hrs	Spring	15 hrs
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 4333C Industrial Cont Sys	3
ESI 4628C IE Computer Appl	3	EGN 3358 Therm-Flds-Ht Trans	3
		or EGN 3343 Thermodynamics	

Summer	6 hrs¹
*Historical Foundations	3
**Cultural Foundation	3

FOURTH YEAR

Fall	14 hrs	Spring	12 hrs¹
EIN 4516C Sys Anal & Dsgn	3	EIN 4891C IE Sr. Design Proj	3
ESI 4234 Quality Engineering	3	Technical Elective	3
EGN 4624 Engineering Admin	3	*Historical Foundation	3
EGN 3373 Prin of Elec Eng	3	*Science Foundation II	3
Technical Elective	2		

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 the 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 the 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
 - 1. ENC 1101 & ENC 1102
 - 2. Prefer SPC 1603
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
 - 1. Select MAC 1105
 - 2. Select STA 2023
- D. Social Foundations
- E. Science Foundations

9 hrs

9 hrs

6 hrs

6 hrs

6 hrs

2. Lower Level Required Courses

(33 hrs)

- MAD 2104 Foundations of Discrete Math
- Lower level technical courses taken at Community College

3 hrs

30 hrs

3. Prerequisite Courses

(14 hrs)

(C 2.0) or better grade required in all courses)

- MAC 1105 College Algebra and
- MAC 1114 College Trigonometry
- EET 3085C Electricity & Electronics
- or EET 3086 Principles of Electrical Circuits
- CET 3115C Digital Technology
- CET 2364 Systems Applications in C

GEP

3 hrs

3 hrs

4 hrs

4 hrs

3 hrs

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

4. Required Technical Courses

(27 hrs)

(C 2.0) or better grade required in all courses)

- CET 3529 Linux/Unix Sys Admin and Applications
- CET 3010 Intro to Info Technology
- CET 4427 Applied Database I
- CET 3383 Applied Systems Analysis I
- CET 4505 Applied Operating Systems I
- CET 3679 Intro to Telephony
- CET 4483 Intro to Local Area Network
- CET 4333 Computer Organization & Design
- CET 4748 Wide Area Networks I

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

5. IST Support Courses

(6 hrs)

- ENC 3241 Writing For Technical professional
- ETI 4448 Applied Proj Mgmt
- STA 2023 Statistical Methods

3 hrs

3 hrs

GEP

6. Technical Electives

(12 hrs)

(C 2.0) or better grade required in all courses)

Choose four from the following:

- CET 3198C Digital Systems
- CET 4138C Digital Programmable Devices
- CET 4931 Current Topics in Technology
- MAP 3401 Problem Analysis
- CET 4523 Applied Systems Analysis II
- CET 4429 Applied Database II
- CET 4583 Web Base Systems I
- CET 4584 Web Base Systems II
- CET 4663 Computer & Networks Security
- CET 4668 Practice of Information Security
- CET 4882 Network Defense Strategies
- CET 4884 Security Meth & Pract
- CET 4885 Investigative Digital Technology
- CET 4889 Sec Sensor & Biomet
- ETG 4950C Senior Design Project
- ISM 3011C Essentials of Management Information Systems
- ISM 4153C Enterprise Information Systems
- ISM 4431 Business Process Analysis
- ISM 4154 Enterprise Application Development
- ISM 5219 Business Intelligence Systems

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

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 the 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

Tentative Course Schedule

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 1603 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 3529 Linux/Unix Sys Admin	3
CET 3010 Intro to Info Tech	3	Upper level elective	3
STA 2023 Statistical Methods	3	CET 3115C 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		
ETI 4448 Applied Proj Mgmt	3		

Senior Year

Fall	12 hrs	Spring	12 hrs
CET 4505 Appl Oper Sys I	3	CET 3383 Applied Sys Analysis I	3
CET 3679 Intro to Telephony	3	Upper level elective	3
CET 4748 Wide Area Networks I	3	Upper level elective	3
CET 4427 Appl Database I	3	Upper level elective	3

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK

Note: For detailed information, see description of this program in the Statewide Articulated AS to BS Programs section.

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/>

E-mail: undergraduate@eecs.ucf.edu

Contacts: Dr. Ali Orooji, HEC 245D;
 Charlese Hilton-Brown, HEC 245F

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+1 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1603	
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
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, <i>or</i> MCB 1310	

2. Common Program Prerequisites

(12 hrs)

MAC 1114	Trigonometry	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
<i>or</i> COT 3100C	Discrete Structures	

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(45 hrs)

COP 3502C	Computer Science I	3 hrs
CIS 3360	Security in Computing	3 hrs
CAP 4104	Human and Technology Interaction	3 hrs
EEL 3041	Circuit Analysis	3 hrs
EEL 3531	Information Theory	3 hrs
CGS 3269	Computer Architecture Concepts	3 hrs
COP 4610L	OS Laboratory	3 hrs
CNT 3004	Computer Network Concepts	3 hrs
CIS 3003	Fundamentals of Information Technology	3 hrs
CIS 4313	Managing IT Integration	3 hrs
CNT 4714	Enterprise Computing	3 hrs
CIS 4004	Web-Based Information Technology	3 hrs
CNT 4703C	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
Select one from ENC 4293, ENC 4265, ENC 4414, <i>or</i> ENC 4415		3 hrs

5. Restricted Upper-Division Electives

(6 hrs)

Six hours of any 3000-level (or higher) courses offered by Computer Science and Information Technology programs.

6. School Exit Requirements

- Complete an exit interview with an assigned faculty advisor
- Computer competency met by completion of major

7. Free Electives

(minimum 12 hrs)

UCF Degree Programs

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
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/aic/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

FIRST YEAR

Fall	14 hrs	Spring	15 hrs
ENC 1101 English Comp I	3	ENC 1102 English Comp II	3
SPC 1603 Fund of Tech Presentations	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
		PSY 2012 Psychology	3

SECOND YEAR

Fall	16 hrs	Spring	15 hrs
COP 3330 Intro to OO/Java	3	CGS 3269 Comp Arch Concepts	3
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
CIS 3360 Security in Computing	3	BSC 1005 Biological Principles	3

THIRD YEAR

Fall	15 hrs	Spring	15 hrs
CAP 4104 Human Technology Interaction	3	CIS 4313 Managing IT Integration	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
CNT 3004 Comp Network Concepts	3	Free elective	3
CIS 3003 Fundamentals of Information Technology	3	Select one from ENC 4293, ENC 4265, ENC 4414, or ENC 44153	

FOURTH YEAR

Fall	15 hrs	Spring	14 hrs
EEL 3531 Information Theory	3	COP 4910 Frontiers of IT	3
CNT 4703C Network Laboratory	3	CNT 4714 Enterprise Computing	3
Restricted Upper division elective	3	Restricted Upper division elective	3
CIS 4004 Web-Based Info Tech	3	Free elective	3
Free elective	3	Free elective	2

INTERDISCIPLINARY STUDIES (B.A., B.S.)

Office of Undergraduate Studies

Office of Interdisciplinary Studies, CL1, 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 that meet the needs of individual students.

This program may be completed 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 two semesters 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
- 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

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 completing this major.

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 proficiency equivalent to American Sign Language III. 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: Environmental Studies Track in Interdisciplinary Studies, Women's 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

INTERDISCIPLINARY STUDIES – ENVIRONMENTAL STUDIES TRACK (B.S.)

Office of Undergraduate Studies

Office of Interdisciplinary Studies, CL1, Room 302

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

E-mail: is@mail.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

- 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 must 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
 - or
 - 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

UCF Degree Programs

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	Evolutionary Biology
PCB 4723	Animal Physiology
PCB 5045	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 4554	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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

INTERDISCIPLINARY STUDIES - WOMEN'S STUDIES TRACK (B.A.)

Office of Undergraduate Studies

Office of Interdisciplinary Studies, CL1, Room 302

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

E-mail: is@mail.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@mail.ucf.edu

Contact: Kate Oliver, 407-823-2260

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 must 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
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 to satisfy the First Study Area.
- Students must complete one subject area from those specified in the Second Study Area 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

(18 hrs)

Womanist/Women of Color Area:

WST 3460	Womanist Studies	(3 hrs)
Select 15 hours from the following courses		(15 hrs)
AML 3614	Topics in African-American Literature	
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		

Women's Studies Cognate Area:

Select 18 hours from the following courses: (18 hrs)

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 4129	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	HIV 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 departments; with prior approval from the Women's Studies Director, some courses may substitute.

Second Study Area (from those below) (18 hrs)

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 proficiency equivalent to American Sign Language III. 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 the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Interdisciplinary Studies - Interdisciplinary Studies track

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

INTERNATIONAL AND GLOBAL STUDIES (B.A.)

College of Sciences

Political Science Department, PH 302, 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
- Double major/dual degree policy in Political Science programs and minors
 1. Students who double major/degree in any Political Science track and International and Global Studies shall not count more than two courses, except POS 2041 and POS 3703, toward both programs.
 2. Students who major in International and Global Studies, and minor in Political Science, shall not count more than one course toward both programs, except POS 2041.
- 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	9 hrs
1. Prefer WOH 2012	3 hrs
2. Prefer from GEP B.2 list	3 hrs
3. Prefer WOH 2022	3 hrs
C. Mathematical Foundations	6 hrs
1. Prefer MGF 1106 <i>or</i> MGF 1107 (may substitute a higher level math)	3 hrs
2. Prefer STA 2014C <i>or</i> STA 1060C	3 hrs
D. Social Foundations	6 hrs
1. Prefer POS 2041	3 hrs
2. Prefer from GEP D.2 list	3 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites none

3. Core Requirements (24 hrs)

INR 2002	International Relations-Theory and Practice	3 hrs
POS 2041	American National Government	3 hrs
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

UCF Degree Programs

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 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 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, European Studies, Latin American Studies, Middle East Studies, or Spanish.

Notes: No more than one course may be used to fulfill both this track and the minor; students may not utilize the International and Global Studies minor to complete the degree requirements for the BA in International and Global Studies. The language and area studies minor requirement will be waived for students who double major in French, Spanish, or Modern Language Combination.

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 taken 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: Anthropology, Economics, History

Related Minors: Anthropology, 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

INTERPERSONAL/ORGANIZATIONAL COMMUNICATION (B.A.)

College of Sciences

Nicholson School of Communication

COMM 238, 407-823-2681

<http://communication.cos.ucf.edu/undergraduate/degrees/io.php>

Contact: Jeff Butler, 407-823-2432, E-mail: jbutler@mail.ucf.edu

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	6 hrs
Select SPC 1608	3 hrs
B. Cultural and Historical Foundations	
C. Mathematical Foundations	
Prefer MGF 1106 or MGF 1107 (may substitute a higher level math)	3 hrs
Select STA 1060C or STA 2014C	3 hrs
D. Social Foundations	
E. Science Foundations	
	6 hrs

2. Common Program Prerequisites

(0 hrs)

SPC 1608 Fund of Oral Communication
GEP
See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 2100C	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
COM 3406	Motivation 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 2100C, 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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
MGF 1106* req# 1C1-GEP	EUH 2000* req# 1B1-GEP	3
Elective* Check restrictions	STA 2014C Prin of Statistics	3
SPN 1120C* req# Lang/Elect	Elective* Check restrictions	3
	SPN 1121C* req# Lang/Elect	4

Sophomore Year

Fall	Spring	
ANT 2000* req# 1D2-GEP	ARH 2050* req# 1B3-GEP	3
BSC 1005* req# 1E2-GEP	POS 2041* req# 1D1-GEP	3
MUL 2010* req# 1-GEP	PSC 1121* req# 1E1-GEP	3
SPC 1608 Fund of Oral Com	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3

Junior Year

Fall	Spring	
COM 3011C Com Reltn	COM 3013* req# 4-ResElec	3
COM 3311 Com Res Methods	COM 3110* req# 4-ResElec	3
PUR 4110C* req# 3-Core	COM 4014* req# 4-ResElec	3
ENC 3250* req# 4-ResElec	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3

Senior Year

Fall	Spring	
COM 3120 Org Communication	COM 4462* req# 4-ResElec	3
SPC 3301 Intpers Com	COM 4941* req# 4-ResElec	3
COM 4461* req# 4-ResElec	MAR 3023* req# 5-Ext RE	3
PUP 3325* req# 5-Ext RE	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3

JOURNALISM (B.A.)

College of Sciences

Nicholson School of Communication

COMM 238, 407-823-2681

<http://communication.cos.ucf.edu/undergraduate/degrees/journalism.php>

E-mail: journalism@ucf.edu

Contact: R. Brunson, 407-823-3151

Limited Access program

Admission Requirements

- 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 AP credit or 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 an essay demonstrating commitment to the field; include previously published journalistic work, if any.

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 internships 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.

UCF Degree Programs

- 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 1608 *or* SPC 1603 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MGF 1106 *or* MGF 1107 (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 1603 Fund of Technical Presentations *or*
 - SPC 1608 Fund Oral Communication

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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

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

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 3940 *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

5. 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 of 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.

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$44 per term
- Part-time Student\$22 per term

LEGAL STUDIES (B.A., B.S.)

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies

HPA 311, 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

Undergraduate Program Director and Pre-Law Advisor:
David Slaughter, E-mail: dslaughter@mail.ucf.edu

Admission Requirements

none

The Legal Studies Program provides students with a broad understanding of basic principles of law and the role and function of the legal system. While no specific major is prescribed for admission to law school, many pre-law students elect to major in legal studies. 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. Pre-law students are encouraged to work closely with legal studies advisors in planning their programs. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Legal Studies.

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
 - 1. ENC 1101 & ENC 1102
 - 2. Prefer SPC 1608
- B. Cultural Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundations

9 hrs

9 hrs

6 hrs

6 hrs

6 hrs

2. Common Program Prerequisites

none

3. Core Requirements

(21 hrs)

- PLA 3013 Law and the Legal System
- PLA 3104 Legal Research
- PLA 3155 Legal Writing
- PLA 3201 Civil Practice and Procedure
- PLA 3610 Property and Real Estate Law
- PLA 4700 Professional Ethics and Liability
- PLA 4935 Capstone: Legal Issues

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	14 hrs	Spring	15 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	One course: ARH 2050,	3
		ARH 2051, MUL 2010, THE 2000,	
		REL 2300, PHI 2010, LIT 2110,	
		LIT 2120	
		Elective	3

Sophomore Year

Fall	15/16 hrs	Spring	15/16 hrs
PSC 1121 <i>or</i> CHM 1020	3	PLA 3013	3
SPC 1608	3	EUH 2001 <i>or</i> HUM 2230	3
EUH 2000 <i>or</i> HUM 2210	3	<i>or</i> AMH 2020	
<i>or</i> AMH 2010		For. Lang II <i>or</i> B.S. Option	3/4
For. Lang. I <i>or</i> B.S. option	3/4	Elective	3
Elective	3	Elective/Minor	3

UCF Degree Programs

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/minor	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>

Not eligible for a double degree with another College of Business Administration major

1. Admission Requirements

- Completion of the UCF General Education program, and Gordon Rule, or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

A. Communication Foundations	9 hrs
Preferred: SPC 1608	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1140 Pre-Calculus	3 hrs
Select CGS 2100C 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 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Required for All Business Majors

(36 hrs)

Core Classes

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3375	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403C	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011C	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:

- Must complete all Gordon Rule requirements, prior to admission to this degree.
- 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 4110)		
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 3113, GEB 4111, and GEB 4110)		
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 4110	Business Plan Preparation	3 hrs
GEB 4111	New Venture Finance	3 hrs
MAR 3641	Market Intelligence or	
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
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$30 per term
- Part-time Student \$15 per term

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 1608	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

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 3011C	4
BUL 3130	4	MAR 3023	4
ISM 3530	3	ECO 3411	4
MAN 3025	4	FIN 3403C	4

Senior			
1st Term	16 hrs	2nd Term	16 hrs
GEB 3375	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 3375	4	MAN 3301	3
MAR 3023	4	ECO 3411	4
MAN 3025	4	FIN 3403C	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 3011C	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 3375	4	ECO 3411	4
MAR 3023	4	BUL 3130	4
MAN 3025	4	FIN 3403C	4

Senior			
1st Term	16 hrs	2nd Term	16 hrs
GEB 4111/FIN 3461	3	MAN 4720	4
MAR 3641/3391	3	GEB 4110	3
MAN 3301	3	**MAN Elective	3
ISM 3011C	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>

Not eligible for a double degree with another College of Business Administration major

Admission Requirements

- Completion of the UCF General Education program, and Gordon Rule, 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
Preferred: SPC 1608	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1140 Pre-Calculus	3 hrs
Select CGS 2100C Computer Fundamentals for Business	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics or	3 hrs
ECO 2023 Microeconomics	
Select one: PSY 1012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites

Must be completed with a 2.0 or better. (18-21 hrs)

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 2100C	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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes

First or subsequent semester in the College of Business Administration: (36 hrs)

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3375	Introduction to International Business	4 hrs

UCF Degree Programs

BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403C	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
MAR 3023	Marketing	4 hrs
ISM 3011C	Essentials of Management Information 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
ISM 4113	Information Systems Analysis & Design
ISM 4212C	Database Management Systems
ISM 4220	Distributed Information Systems
ISM 4300	Information Technology Management
ISM 4400	Decision Support Systems

Plus two of the following:

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 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$30 per term
- Part-time Student\$15 per term

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

Freshman		1st Term	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3	3
Cult-Hist I*	3	Cult-Hist II*	3	3
SPC 1608	3	Art/Music/Lit	3	3
***Elective	3	MAC 1105*	3	3
***Elective	3	CGS 2100C*	3	3

Must complete nine hours in a summer semester

Sophomore		1st Term	2nd Term	15 hrs
ECO 2023*	3	ECO 2013*	3	3
ACG 2021*	3	ACG 2071*	3	3
Science	3	Science	3	3
Psy/Soc/Ant	3	MAR 3023	4	4
***Elective	3	ECO 3401*	3	3

**"C" (2.0) or better grade required in each class*

Junior		1st Term	2nd Term	15 hrs
GEB 3031	4	MAR 3023	4	4
ISM 3011C	4	ISM 4212C	4	4
ISM 3253	4	ISM 4220	3	3
GEB 3375	4	ECO 3411	4	4

Senior		1st Term	2nd Term	14 hrs
ISM Elective	3	MAN 4720	4	4
FIN 3403C	4	ISM 4300	3	3
ISM 4400	3	ISM Elective	3	3
MAN 3025	4	BUL 3130	4	4
ISM 4113	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>

Not eligible for a double degree with another College of Business Administration major

Admission Requirements

- Completion of the UCF General Education program, and Gordon Rule, 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 Preferred: SPC 1608	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations Select MAC 1140 Pre-Calculus	3 hrs
Select CGS 2100C Computer Fundamentals for Bus	3 hrs
D. Social Foundations Select ECO 2013 Macroeconomics <i>or</i> ECO 2023 Microeconomics	3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Core Classes (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 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 3375	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403C	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011C	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:

- Must complete all Gordon Rule requirements, prior to admission to this degree.
- 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	Consumer 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 3721	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
MAR 4XXX	Contemporary Marketing Topics in Florida	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 4415C	Advanced Professional Selling	3 hrs
MAR 4413C	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 4415C is offered in the fall semester; MAR 4413C 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/marketing/>.

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.

UCF Degree Programs

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oaas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$30 per term
- Part-time Student\$15 per term

FOUR YEAR PLAN OF STUDY – GENERAL MARKETING

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1608	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	17 hrs
ECO 3411	4	MAR 3391	3
GEB 3031	4	BUL 3130	4
GEB 3375	4	FIN 3403C	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	MAR Elective	3
ISM 3011C	4	GE Non-Business Elective	3
MAR 3641	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 1608	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 3375	4	FIN 3403C	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 4415C	3	MAR 4804	3
MAN 3025	4	BUL 3130	4
ISM 3011C	4	MAR 4413C	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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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	Applied Combinatorics	
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

a. Applied Elective

(6 hrs)
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 3502C
- 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)

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/academic_learning_compacts.htm

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

Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall

ANT 2000* req# 1D2-GEP
ENC 1101 Composition I
MAC 2311 Calc Anal Geo I
STA 2023 Stat Methods I

Spring

3 BSC 1005* req#1E2 GEP 3
3 ENC 1102 Composition II 3
4 MAC 2312 Calc Anal Geo II 4
3 MHF 3302 Logic and in Math 3

Sophomore Year

Fall

COM 1000* req# 1A3-GEP
PHY 2048 Phy for Eng Sci I
PHY 2048L Phy L Eng Sci I
MAC 2313 Calc Anal Geo III
MAS 3105 Matrix and Lin Alg

Spring

3 POS 2041* req# 1D1-GEP 3
3 MAP 2302 Dif Equations 3
1 MAS 3106 Linear Algebra 4
4 PHY 2049 Phy for Eng Sci II 3
4 PHY 2049L Phy L Eng Sci II 1

Junior Year

Fall

AMH 2010* req# 1B1-GEP
COP 3223 Intro to Prog C
MAD 4203* req# 3-Core
MAP 4363 Ap Bound Prob I
Elective* Check restrictions

Spring

3 COP 3502C Computer Science I 3
3 MUL 2010* req# 1B2-GEP 3
4 MAP 4307 App complex var 3
3 MAP 4364 Ap Bound Prob II 3
4 Elective* Check restrictions 4

Senior Year

Fall

ARH 2050* req# 1B3-GEP
COT 4500 Numerical Calculus
MAA 4226 Adv Calculus I
STA 4321 Stat Theory I
COT 4210* req# 4a-ResElec

Spring

3 ENC 3241* req# 3-Core 3
3 MAP 4103 Math Modeling I 3
4 STA 4322 Stat Theory II 3
3 PCB 3063* req# 4b-ResElec 3
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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

UCF Degree Programs

3. Basic Core Requirements

COP 3502C	Computer Science I	(6 hrs)
PHY 2048&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049&L	Physics for Sci & Eng II w/lab	GEP
STA 2023	Statistical Methods I	3 hrs
MAP 2302	Differential Equations	3 hrs

4. Advanced Core Requirements

Select one course		(42 hrs)
MHF 3302	Logic and Proof in Mathematics	3 hrs
COT 3100C	Intro to Discrete Structures	3 hrs
ENC 3241	Writing for the Tech Professional	3 hrs
MAS 3106	Linear Algebra	4 hrs
MAD 4203	Applied Combinatorics	3 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		
MAP 4103	Mathematical Modeling I	3 hrs
MAP 4153	Vector and Tensor Analysis	3 hrs

5. Restricted Electives

Select six upper division courses		(18 hrs)
COP 3402	Systems Software	3 hrs
COP 4331C	Proc. For OO Software Dev	3 hrs
EEL 4768C	Computer Architecture	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs
COT 4210	Discrete Computational Structures II	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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 3034C	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		3-4 hrs
MAS 3106	Linear Algebra	
MAD 4203	Applied Combinatorics	
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	
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
EEE 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

MATHEMATICS -

MATHEMATICAL ECONOMICS 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 Mathematics - Mathematical Economics track is designed for students who wish to earn a B.S. degree in Mathematics with an emphasis in Economics. This interdisciplinary program is carefully structured so that a student has an opportunity to develop mathematical skills that can be applied to problems in economic theory and quantitative analysis. These critical thinking and analytical skills will be useful as preparation for graduate study and careers in a variety of fields.

UCF Degree Programs

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 and Economics Departments.
- 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.
- Students should consult with the major advisors for the Department of Mathematics and Economics.

1. UCF General Education Program

(36+2 hrs)

- A. Communication Foundations 9 hrs
Preferred: SPC 1608
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
Select MAC 2311 Calculus I 4 hrs
Select STA 2023 Principles of Statistics 3 hrs
- D. Social Foundations
Select ECO 2013 Macroeconomics *or* ECO 2023 Microeconomics 3 hrs
Select one: PSY 2012, SYG 2000 *or* ANT 2000 3 hrs
- E. Science Foundations
PHY 2048 & L, CHM 2045C *or* BSC 2010C 4 hrs
Select a listed course from the Science group not completed 3 hrs

2. Common Program Prerequisites

(15 hrs)

- COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I 3 hrs
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
Complete one of the following sequences; 4 hrs
PHY 2048&L & PHY 2049&L Physics for Eng & Sci I & II, *or*
CHM 2045C** & CHM 2046 & L Chemistry Fundamentals I & II, *or*
BSC 2010C & BSC 2011C Biology I & II

*See Transfer Notes for possible substitutes

**CHM 2040C plus CHM 2041C can substitute for CHM 2045C

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Basic Core Requirements

(25 hrs)

- ECO 2013 Principles of Macroeconomics 3 hrs
ECO 2023 Principles of Microeconomics 3 hrs
MHF 3302 Logic and Proof in Mathematics 3 hrs
MAP 2302 Differential Equations 3 hrs
MAS 3105 Matrix and Linear Algebra 4 hrs
STA 4321 Statistical Theory I 3 hrs
ECO 3101 Intermediate Microeconomics 3 hrs
ECO 3203 Intermediate Macroeconomics 3 hrs
ECO 4451 Research Methods in Economics 3 hrs
STA 2023 Statistical Methods I 3 hrs

4. Advanced Core Requirements

(17 hrs)

- MAA 4226 Advanced Calculus I 4 hrs
MAS 3106 Linear Algebra 4 hrs
MAP 4103 Mathematical Modeling I 3 hrs
ECO 3410 Mathematical Economics 3 hrs
ECO 4412 Econometrics 3 hrs

5. Restricted Electives

(18 hrs)

Select 3 courses from each of the following two areas:

Area 1 (3 courses)

- COT 4500 Numerical Calculus 3 hrs
MAD 4203 Applied Combinatorics 3 hrs
MAP 4363 Applied Boundary Value Problems I 3 hrs
MAP 4113 Probability, Random Proc & App. I 3 hrs
MAP 4307 Applications of Complex Variables 3 hrs

Area 2 (3 courses)

- ECO 3703 International Trade 3 hrs
ECO 4704 International Macroeconomics 3 hrs
ECO 4504 Public Economics 3 hrs
ECP 4403 Industrial Organization & Game Theory 3 hrs
ECP 4302 Environ. & Natural Res. Economics 3 hrs
STA 4322 Statistical Theory II 3 hrs

6. Exit Requirements

- Students must earn a grade of "C" (2.0) or better in each course applied towards the major as well as a 2.0 overall average.
- Computer Competency met by ECO 4451 or COP 3223.

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. 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: Applied Mathematics, Statistics

Related Minors: Statistics, 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.

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Freshman

1st Term	16 hrs	2nd Term	16 hrs
ENC 1101* Composition 1	3	ECO 2023* Prin Microeconomics	3
Cult-Hist I*	3	MAC 2312 Calculus II	4
SPC 1608*	3	MHF 3302 Logic and Proof	3
MAC 2311* Calculus 1	4	ENC 1102*	3
STA 2023* Stat Methods 1	3	Art/Music/Lit*	3

Sophomore

1st Term	15 hrs	2nd Term	16 hrs
ECO 2013 Prin Macroeconomics	3	ECO 3101 Intermed Micro	3
PHY 2048 & 2048L Physics*	4	MAP 2302 Dif Equations	3
MAC 2313 Calculus III	4	MAS 3106 Linear Algebra	4
MAS 3105 Matrix and Lin Algebra	4	Science*	3
		Cult-Hist II*	3

Junior

1st Term	15 hrs	2nd Term	15 hrs
ECO 3203 Intermed Macro	3	MAP 4103 Math Modeling	3
Psy/Soc/Ant*	3	ECO 3410 Math Economics	3
STA 4321 Stat Theory 1	3	Area 1 or 2 Elective	4
Area 1 or 2 Elective	3	Area 1 or 2 Elective	3
**Elective	3	**Elective	3

Senior

1st Term	15 hrs	2nd Term	15 hrs
ECO 4412 Econometrics	3	ECO 4451 Research Methods	3
MAA 4226 Adv Calculus 1	3	Area 1 or 2 Elective	3
Area 1 or 2 Elective	3	**Elective	3
Area 1 or 2 Elective	3	**Elective	3
**Elective	3	**Elective	3

*GEP

**General electives as required to reach 120 semester hours.

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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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		
ENC 3241	Writing for the Tech Professional	3 hrs
ENC 3310	Magazine Writing	3 hrs
ENC 3311	Advanced Expository Writing	3 hrs
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	Abstract Algebra I	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	Applied Combinatorics	3 hrs
MTG 4302	Introduction to Topology	3 hrs
MAP 4307	Appl of Complex Variables	3 hrs

4. Restricted Electives (3 hrs)

Biological or physical sciences electives

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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.

SummerTake Math Placement Test - <http://mathplacement.sdes.ucf.edu/>**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

UCF Degree Programs

Junior Year

Fall	Spring
COP 3223 Intro to Prog C	3 COP 3502C Computer Science I
MAP 4363 Ap Bound Prob I	3 MUL 2010* req# 1B2-GEP
MAS 4301 Algebraic Struct	3 MAP 4307 App complex var
Elective* Check restrictions	4 PCB 3063* req# 4-ResElect
Elective* Check restrictions	3 Elective* Check restrictions

Senior Year

Fall	Spring
AMH 2010* req# 1B1-GEP	3 ARH 2050* req# 1B3-GEP
ENC 3241* req# 3-Core	3 MAA 4227 Adv Calculus II
MAA 4226 Adv Calculus I	4 MTG 4302 Intro to Topology
MAD 4203 Comb Thry	4 STA 4322 Stat Theory II
STA 4321 Stat Theory I	3 Elective* Check restrictions

MATHEMATICS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://education.ucf.edu/mathed>

Program Coordinators: Dr. Janet Andreasen, ED 123Q,
407-823-5430, E-mail: jandreas@mail.ucf.edu;
Dr. Erhan Haciomeroglu, ED 115L, 407-823-4336,
E-mail: erhansh@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.
- Meet the foreign language admission 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 1608 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 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 the Teaching Profession	3 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4242	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 including MAE 4634 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 required 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.education.ucf.edu/clinicalexp/>.

5. Internship I Block

(7 hrs)

MAE 3940	Internship I	3 hrs
MAE 4360	Mathematics Instructional Analysis	4 hrs

6. Specialization Requirements

(23 hrs)

A grade of "C-" (1.75) or better is required.	
MAS 3105	Elementary Linear and Matrix Algebra
MAS 3203	Introduction to Number Theory
MHF 3302	Logic and Proof in Mathematics
MHF 4404	History of Mathematics
MTG 4212	Modern Geometry
STA 4163	Statistical Methods II
MAE 4634	Programs in Teaching Mathematics

7. Internship II

(12 hrs)

MAE 4941	Internship II	12 hrs
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- 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 <http://www.education.ucf.edu/clinicalexp/>.
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

12. Recommended Four-Year Sequence of Courses

Freshman Year

Fall	13 hrs	Spring	16 hrs
EDF 2085 Intro to Diversity for Ed	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 <i>or</i>	3
		BSC 1005 Biological Principles	
		SPC 1608 Fund of Oral Comm	3
Summer	10 hrs		
EDF 2005 Intro to the Teaching Prof	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 Intro to Tech for Ed	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	13 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
EEX 4242 Teach Ex Stud in Sec Setting	3	STA 4163 Statistical Methods II	3
MTG 4212 Modern Geometry	4	TSL 4080 Theory & Prac of Teach	3
		ESOL Students in Schools	

Senior Year

Fall	13 hrs	Spring	12 hrs
MAE 3940 Internship I	3	MAE 4941 Internship II	12
EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch	3		
MHF 4404 History of Math	3		
MAE 4360 Math Instruct Analysis	4		

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 the 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 1603	
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 2048/48L (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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 5. 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 Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EML 3034C	Modeling Methods in MMAE	3 hrs
EML 3303C	Mechanical Engineering 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

4. Career and Academic advisement

The department requires all students in the program meet with a faculty member for advising on career and academic issues. These courses must be taken in sequence during the 3rd and 4th year.

EML 3990	Mechanical Career/Academic Advisement I	0 hr
EML 4991	Mechanical Career/Academic Advisement II	0 hr

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	2 hrs
EML 4221C	Experimental Techniques in Mechanical Sys	2 hrs
	Approved Electives	9 hrs

UCF Degree Programs

b. Mechanical Systems Option

EML 4304C	Thermo-fluids Measurements	2 hrs
EML 3262	Kinematics of Mechanisms	3 hrs
EGM 3601L	Solid Mechanics Lab	2 hrs
EML 4221C	Experimental Techniques in Mechanical Sys	2 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

5. Departmental Graduation Requirements (6 hrs)

These courses are a capstone experience to your engineering program and should be completed in your last two major semesters of study.

EML 4501C	Engineering Design I	3 hrs
or EGN 4412C	Interdisciplinary Design I	
EML 4502C	Engineering Design II	3 hrs
or 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. 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.

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: Aerospace 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 substituted by an approved Mechanical Engineering technical elective for transfer students. However, students may take EGN 1007C in the Spring semester if they do not have knowledge of Mathcad or Mathlab.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

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 1603 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}		
*MAC 2313 Calc III	4		
*Social Foundations	3		
*Historical Foundations	3		

SECOND YEAR

Fall	13 hrs ¹	Spring	12 hrs
STA 3032 Prob & Stats/Engrs	3	EGN 3321 Engr Anal-Dynamics	3
*MAP 2302 Diff Equations	3	EGN 3343 Thermodynamics	3
EGN 3310 Engr Anal-Statics	3	EGM 3601 Solid Mechanics	3
*PHY 2049 Phys Eng II w/lab	4	EGN 3373 Prin of Elec Engr	3
Summer	10 hrs¹		
EGN 3365 Strctr & Prop Matls	3		
*Cultural Foundations	3		
*Historical Foundations	3		

THIRD YEAR

Fall	15 hrs ¹	Spring	12 hrs
EML 3500 Machine Design	3	EML 4220 Vibration Analysis	3
EML 3701 Fluid Mechanics I	3	Approved Technical Elective	3
EML 3034C Modeling Methods	3	EML 4142 Heat Transfer	3
EML 3303C Mech Engr Meas	3	EML 4535C CAD/CAM	3
EML 3990 Career/Acad Advise I	0		
*Science Foundations 2	3		

FOURTH YEAR

I. ENERGY SYSTEMS OPTION

Fall	14 hrs ²	Spring	13 hrs 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
EML 4221C Exp. Tech in Mech Sys	2	EML 4145 Topics in Heat Transfer	2
EML 4991 Career/Acad Advise II	0		

II. MECHANICAL SYSTEMS OPTION

Fall	14 hrs ²	Spring	13 hrs 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
EML 4221C Exp. Tech in Mech Sys	2	Approved Elective	3
Approved Elective	3	EGM 3601L Solid Mechanics Lab	2
EML 4991 Career/Acad Advise II	0		

III. MATERIALS OPTION

Fall	15 hrs ²	Spring	12 hrs 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		
EML 4991 Career/Acad Advise II	0		

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 the Catalog for further information.
2. Students should consult the MMAE Web site (<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 minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in the 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 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 the Catalog for more information.

MEDICAL LABORATORY SCIENCES (B.S.)

College of Medicine

Burnett School of Biomedical Sciences

Department of Molecular Biology and Microbiology

HPA2 335, 407-823-5932

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

Chair: P.E. Kolattukudy

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 Sciences program.

- Separate application to the limited access program should be made directly to the program in the Spring of the year admission is sought. Applications will be accepted until the class is filled. The application for the program can be found at <http://www.biomed.ucf.edu>.
- UCF application must also be submitted prior to program application. 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

- 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 Florida Department of Health 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 | Immunodiagnostics | 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 | 2 hrs |
| 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 for 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

UCF Degree Programs

Transfer Notes:

Community College Equivalencies	
Human Anatomy and Physiology I & II (BSC 2093C and 2094C)	8 hrs
General Microbiology/Lab (MCB 2010C)	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.

Program Accreditation

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$78 per term
- Part-time Student\$39 per term

Tentative Course Schedule for Entering Freshmen

Freshman Year			
Fall	16 hrs	Spring	17 hrs
ENC 1101	3	ENC 1102	3
MAC 1105	3	BSC 2010C	4
SPC 1608	3	CHM 2046	3
CHM 2045C	4	CHM 2046L	1
CGS 1060C	3	ANT 2000 <i>or</i> SYG 2000	3
		<i>or</i> PSY 2012	
		STA 2023	3
Sophomore Year			
Fall	16 hrs	Spring	17 hrs
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			
Fall	13 hrs	Spring	12 hrs
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		
Summer	7 hrs		
MLS 4334	3		
MLS 4550	4		
Senior Year			
Fall	16 hrs	Spring	13 hrs
MLS 4830C	4	MLS 4910	2
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://ml.cah.ucf.edu/>

E-mail: forlang@mail.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 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 *or* MGF 1107 (may substitute a higher level math)
 - 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.
See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements-first language

(24 hrs)

- (French, German or Spanish)
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

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 1120C* req# 2-CPP	4 SPN 1121C* 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 1120C* req# Lang/Elect	4 FRE 1121C* 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.)**College of Medicine****Burnett School of Biomedical Sciences****Department of Molecular Biology and Microbiology**

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 1603 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		GEP, 4 hrs
2046L		
CHM 2210, 2211, Organic Chemistry I, II, + Lab		8 hrs
2211L		
MAC 2311	Calculus with Analytical Geometry I	GEP

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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

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
BOT 4434C	General Mycology	4 hrs
*MCB 3202	Principles of Infectious Diseases	3 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 4204	Cellular Microbiology	3 hrs
*MCB 4276	Epidemiology of Infectious Diseases	3 hrs
*MCB 4312	Molecular Biotechnology	3 hrs
*MCB 4503C	Virology	3 hrs
MCB 4603	Environmental Microbiology	3 hrs

UCF Degree Programs

MCB 4721C	Methods in Biotechnology	4 hrs
MCB 4970H	Honors Thesis	3 hrs
*MCB 5225	Molecular Biology of Disease	3 hrs
MCB 5654	Applied Microbiology	3 hrs
MCB 5932	Current Topics in Molecular Biology	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	Immunodiagnostics	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 4026	Molecular and Cellular Pharmacology	3 hrs
PCB 4235	Cancer Biology	3 hrs
PCB 4174	Foundations of Bio-imaging	3 hrs
PCB 4251	Tissue Engineering	3 hrs
*PCB 4514	Genetics II	3 hrs
PCB 4529	Experimental Molecular Biology	3 hrs
*PCB 4805	Endocrinology	3 hrs
PCB 4264	Stem Cell Biology	3 hrs
*PCB 5238	Immunobiology	4 hrs
PCB 5239	Tumor Biology	3 hrs
PCB 5275	Signal Transduction Mechanisms	3 hrs
*ZOO 3701C	Human Gross Anatomy	3 hrs
*ZOO 3733C	Human Anatomy	4 hrs
*ZOO 3744	Neurobiology	3 hrs
*ZOO 4603C	Vertebrate Embryology	5 hrs
*ZOO 4605	Human Clinical Embryology	3 hrs
*ZOO 4704C	Clinical Neuroanatomy & Neuroscience	4 hrs
*ZOO 4753C	Vertebrate Histology	4 hrs
*ZOO 4747C	Clinical Neuroscience	4 hrs
ZOO 5745C	Essentials of Neuroanatomy	4 hrs

*Recommended for Preprofessional students

5. Departmental Exit Requirements

- Students 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 are 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.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- BSC 2011C*: may be substituted by BSC 3403C
- CHM 2045C**: may be substituted by CHM 2040C, 2041C

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).

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$78 per term
- Part-time Student \$39 per term

Tentative Course Schedule for Entering Freshmen

Freshman Year		13 hrs	Spring	16 hrs
Fall				
ENC 1101		3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000		3	CHM 2046	3
<i>or</i> ANT 2000			CHM 2046L	1
CHM 2045C		4	MAC 1114	3
MAC 1105		3	BSC 2010C	4
			SLS 2311C	2
			<i>(If Preprofessional)</i>	

Sophomore Year		14/15 hrs	Spring	15 hrs
Fall				
CHM 2210		3	CHM 2211	3
MCB 3020C		5	CHM 2211L	2
MAC 2311* <i>or</i> MAC 2253		4/3	STA 2023	3
EUH 2000 <i>or</i> AMH 2010			<i>or</i> CGS 1060C	
<i>or</i> WOH 2012 <i>or</i> HUM 2210		3	BSC 3403C	4
			EUH 2001	3
			<i>or</i> AMH 2020	
			<i>or</i> HUM 2230 <i>or</i> WOH 2022	

Plan your required 9 summer hours into your course of study

Junior Year		17 hrs	Spring	16 hrs
Fall				
PCB 3522		3	PCB 4524	3
Restrictive Elective		3	PCB 4239 & PCB 3233L	4
PHY 2053C		4	PHY 2054C	4
<i>or</i> PHY 2048*, 2048L			<i>or</i> PHY 2049*, 2049L	
BSC 2011C**		4	SPC 1608	3
ECO 2013 <i>or</i> POS 2041		3	<i>or</i> SPC 1603	
			<i>(recommend SPC 1603)</i>	
			Restricted 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		15/16 hrs	Spring	12/15 hrs
Fall				
BCH 4053		3	MCB 4414	3
Restricted Elective		3/4	Restricted Elective	3/4
Restricted Elective		3	Restricted Elective	3/4
Restricted Elective		3/4	Restricted Elective	3/4
Cultural/Historical		3		

MOLECULAR BIOLOGY AND MICROBIOLOGY - PREPROFESSIONAL CONCENTRATION (B.S.)

College of Medicine

Burnett School of Biomedical Sciences

Department of Molecular Biology and Microbiology

HPA2 335, 407-823-5932

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

Chair: P.E. Kolattukudy

Students seeking admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) 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 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 1603 Tech Presentations | 3 hrs |
| B. Cultural Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 3-4 hrs |
| Select STA 2023 <i>or</i> 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 | 4 hrs |
| BSC 2011C* | Biology II | 4 hrs |
| CHM 2045C**, 2046, General Chemistry I, II, + Lab | | GEP, 4 hrs |
| 2046L | | |
| CHM 2210, 2211, Organic Chemistry I, II, + Lab | | 8 hrs |
| 2211L | | |
| MAC 2311 | Calculus with Analytical Geometry I | GEP |

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements (35 hrs)

- | | |
|-----------------------------------|--|
| Life Sciences | |
| MCB 3020C | General Microbiology |
| MCB 4414 | Microbial Metabolism |
| PCB 4239, 3233L | Molecular Immunology + Immunology Lab |
| PCB 3522, 4524 | Molecular Biology I, II |
| BSC 3403C | Quantitative Biological Methods |
| SLS 2311C | Selected Medical Careers |
| Chemistry | |
| BCH 4053 | Biochemistry I |
| Physics | |
| PHY 2053C, 2054C | College Physics I, II |
| <i>or</i> | |
| PHY 2048, 2049 | Physics for Scientists and Engineers I, II |
| Math, Statistics, Computer | |
| MAC 2311 <i>or</i> MAC 2253 | |
| STA 2023 <i>or</i> CGS 1060C | |

*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 laboratory courses. 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 3202	Principles of Infectious Diseases	3 hrs
MCB 3203, 3203L	Pathogenic Microbiology + Lab	4 hrs
MCB 3404	Bacterial Genetics and Physiology	3 hrs
MCB 4203	Infectious Process	3 hrs
MCB 4276	Epidemiology of Infectious Diseases	3 hrs
MCB 4312	Molecular Biotechnology	3 hrs
MCB 4503C	Virology	3 hrs
MCB 4970H	Honors Thesis	3 hrs
MCB 5225	Molecular Biology of Disease	3 hrs
MLS 3305	Hematology	3 hrs
MLS 4334	Hemostasis	3 hrs
MLS 4430C	Clinical Parasitology	2 hrs
MLS 4505C	Immunodiagnostics	3 hrs
PCB 3063	Genetics	3 hrs
PCB 3703C	Human Physiology	4 hrs
PCB 4026	Molecular and Cellular Pharmacology	3 hrs
PCB 4235	Cancer Biology	3 hrs
PCB 4514	Genetics II	3 hrs
PCB 4805	Endocrinology	3 hrs
PCB 5238	Immunobiology	3 hrs
ZOO 3701C	Human Gross Anatomy	3 hrs
ZOO 3733C	Human Anatomy	4 hrs
ZOO 3744	Neurobiology	3 hrs
ZOO 4603C	Vertebrate Embryology	5 hrs
ZOO 4605	Human Clinical Embryology	3 hrs
ZOO 4704C	Clinical Neuroanatomy & Neuroscience	4 hrs
ZOO 4753C	Vertebrate Histology	4 hrs
ZOO 4747C	Clinical Neuroscience	4 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 Prerequisites, Core and Restricted Electives.
- Independent 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 are 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, 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.

UCF Degree Programs

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- BSC 2011C*: may be substituted by BSC 3403C
- CHM 2045C**: may be substituted by CHM 2040C, 2041C

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).

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$78 per term
- Part-time Student\$39 per term

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
MCB 3020C	5	CHM 2211L	2
MAC 2311* <i>or</i> MAC 2253	4/3	STA 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	PCB 4239 + PCB 3233L	4
PHY 2053C <i>or</i> PHY 2048*, 2048L	4	PHY 2054C	4
BSC 2011C**	4	<i>or</i> PHY 2049*, 2049L	
ECO 2013 <i>or</i> POS 2041	3	SPC 1608* <i>or</i> SPC 1603	3
		(recommend SPC 1603)	
		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
Restricted Elective	3	Restricted Elective	3/4
Elective	3/4	Restricted Elective	3/4
Cultural/Historical	3		

MOLECULAR BIOLOGY AND MICROBIOLOGY-UCF/USF Accelerated Medical School Program (B.S.)

Note: For detailed information about this program, see the description in the "Accelerated Undergraduate-Graduate Programs" section.

MUSIC (B.A.)

College of Arts and Humanities Department of Music, CNH 205A

<http://www.music.cah.ucf.edu/>

Academic Advisor: Kirk Gay, 407-823-5968; Fax 407-823-3378, E-mail: kgay@mail.ucf.edu

Admission Requirements

- Each student must either complete an audition that demonstrates satisfactory proficiency or pass an interview with the Academic Advisor.
- The audition will serve as a placement examination for accepted candidates

Degree Requirements

- Prior to attending the first music class as a music major at UCF, all students must take a keyboard placement examination to determine the appropriate level of class piano. Go to <http://music.ucf.edu/students> to see the class piano requirements.
- 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 1608	
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 <i>or</i> 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics <i>or</i> MGF 1107 (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 (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
MXV 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
MVK 2122	Class Piano IV	1 hr

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements (9 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
MUH 3211	Music History & Literature I	3 hrs
MUH 3212	Music History & Literature II	3 hrs
	GEP	

4. Restricted Electives-Music (15-19 hrs)

- Choose one MUT 3XXX or MUT 4XXX course and
- 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, with the approval of the Academic Advisor, 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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	14 hrs	Spring	17 hrs
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

Sophomore Year

Fall	16 hrs	Spring	16 hrs
SPC 1608 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 Ensemble	1	MUN XXXX Ensemble	1
XXX 1120 Foreign Language	4	XXX 1121 Foreign Language	4
MVK 2121 Class Piano III	1	MVK 2122 Class Piano IV	1
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
STA 1060C Basic Statistics MS Excel (GEP C.2.)	3	MGF 1106 Finite Mathematics (GEP C.1.)	3

Junior Year

Fall	15 hrs	Spring	15 hrs
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	3
MUT 3/4XXX	3	Elective	3
MUX 3/4XXX Music Restricted Elective	3	MUX 3/4XXX Music Restricted Elective	3
3XXX 3/4XXX Non-Music Restricted Elective	3	XXX 3/4XXX Non-Music Restricted Elective	3

Senior Year

Fall	15 hrs	Spring	12 hrs
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
XXX 3/4XXX Non-Music Restricted Elective	3	XXX 3/4XXX Non-Music Restricted Elective	3
MUX 3/4XXX Music Restricted Elective	3	MUS 4900 Capstone Project	3
GEP E.2. Science Foundation	3	XXX 3/4XXX Non-Music Restricted Elective	3
XXX 3/4XXX Non-Music Restricted Elective	3		

MUSIC EDUCATION (B.M.E.)

College of Arts and Humanities

Department of Music, CNH 205A

<http://www.music.cah.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 Web site 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.

UCF Degree Programs

Degree Requirements

1. UCF General Education Program

(see General Education Program for detailed information)

A. Communication Foundations

Select ENC 1101 and ENC 1102
Prefer SPC 1608

B. Cultural and Historical Foundations

Select one course from 1.B.1 list
Select MUH 3212 History and Literature II
Select one course from 1.B.1 or 1.B.2 list

C. Mathematical Foundations

Prefer MGF 1106 Finite Mathematics or MGF 1107
(may substitute a higher level math)
Prefer STA 1060C Statistics Using Excel

D. Social Foundations

E. Science Foundations

2. Common Program Prerequisites

EDF 2005 Introduction to the Teaching Profession
EDF 2085 Introduction to Diversity for Educators
EME 2040 Introduction to Technology for Educators
MUN XXXX Major Ensembles (4 semesters)
MUS 1010 Music Forum (4 semesters)
MUT 1121 Music Theory and Musicianship I
MUT 1122 Music Theory and Musicianship II
MUT 2126 Music Theory and Musicianship III
MUT 2127 Music Theory and Musicianship IV
MVK 2122 Class Piano IV
MVX 141X Performance I (2 semesters)
MVX 242X Performance II (2 semesters)

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Music Core Requirements

MUN XXXX Major Ensembles (4 semesters)
MUS 1010 Music Forum (6 semesters)
MUT 1121 Music Theory and Musicianship I
MUT 2126 Music Theory and Musicianship III
MUT 2127 Music Theory and Musicianship IV
MVK 2122 Class Piano IV
MVX 141X Performance I (2 semesters)
MVX 242X Performance II (2 semesters)

4. Music Education Prerequisites

MUN XXXX Major Ensembles (2 semesters)
MVX 343X Performance III (2 semesters)
MUG 3104 Basic Conducting
MUL 2014 Introduction to Music Literature
MUH 3211 Music History & Literature I
MUH 3212 Music History & Literature II
ESE 3940 Internship I
MUE 4311 Elementary School Music Methods
MUE 3333 Music Learning Theory and Assessment

5. Education Core

EDG 4410 Teaching Strategies and Classroom Mgmt.
TSL 4080 Theory and Practice of Teaching ESOL Students
EDF 4603 Critical Analysis of Ethical, Legal and School Safety Issues
RED 4043 Content Reading K-12

6. Music Education Specialty Area Courses and Professional Program Courses

(Professional Program Courses Denoted by *)

Complete one program:

Program A – Instrumental

MUE 2346 Vocal Techniques
MUG 3302 Instrumental Conduct & Materials*
MUE 4332 Secondary Instrumental Methods I*
MUE 4335 or Secondary Instrumental Methods II* or
MUE 4441 String Methods*
MUE 4394 Seminar in Music Teaching*
ESE 4943 Internship II*

Choose 5:

MUE 2450 Woodwind Techniques I
MUE 3451 Woodwind Techniques II
MUE 2460 Brass Techniques
MUE 3461 Brass Techniques II
MUE 2470 Percussion Techniques I
MUE 2471 Percussion Techniques II
MUE 2440 String Techniques

Program B – Choral

MUS 1250 IPA for Singers
MUG 3202 Choral Conduct & Materials*

MVX 4640 Vocal Pedagogy and Literature
MUE 4331 Secondary Choral Methods I*
MUE 4337 Secondary Choral Methods II*
MUE 4394 Seminar in Teaching Music*
ESE 4943 Internship II*

Choose 3:

MUE 2450 Woodwind Techniques I
MUE 3451 Woodwind Techniques II
MUE 2460 Brass Techniques I
MUE 3461 Brass Techniques II
MUE 2470 Percussion Techniques I
MUE 2471 Percussion Techniques II
MUE 2440 String Techniques

Program C – Elementary School

MUE 2346 Vocal Techniques
MUE 4393 Music and Students with Special Needs
MUG 3X02 Choral or Instrumental Conducting and Materials*
MUE 3353 General Music Literature and Techniques*
MUE 4331 Secondary Choral Methods I*
MUE 4394 Seminar in Teaching Music*
ESE 4943 Internship II*

Choose 4:

MUE 2450 Woodwind Techniques I
MUE 3451 Woodwind Techniques II
MUE 2460 Brass Techniques I
MUE 3461 Brass Techniques II
MUE 2470 Percussion Techniques I
MUE 2471 Percussion Techniques II
MUE 2440 String Techniques

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

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.fl.nesinc.com/> 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 EDF 2085) 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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

Fall	Spring	
GEP	3 GEP	3
GEP	3 GEP	3
EDF 2005 Intro to the Teaching Prof	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

Fall	Spring	
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 EDF 2085 Intro to Diversity for Ed	3
MUT 1126 Music Theory & Musicianship	4 MUT 1127 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
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	Spring	
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	
EDG 4323 Teaching Strategies and Cl. Mgmt.	3 RED 4043 Content Reading	3
EDF 4603 Critical Analysis of Ethical...	3 GEP	3
MXV 343X Performance III	2 EME 2040 Intro to Tech for Ed	3
MUN XXXX Ensemble	1 MVX 343X Performance III	2
CMENC/Schools	0 MUN XXXX Ensemble	1
	0 CMENC/Schools	0
	MUS 3953 Recital Performance I	0
Total	15 Total	17

UCF Degree Programs

Senior

Fall		Spring	
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		Spring	
GEP	3	GEP	3
GEP	3	GEP	3
EDF 2005 Intro to the Teaching Prof	3	MUL 2014 Intro to Music Literature	3
MXV 141X Performance I	2	MUT 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		Spring	
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP	3	MUE XXXX Techniques	1
GEP	3	EDF 2085 Intro to Diversity for Ed	3
MUE XXXX Techniques	1	MUT 2126 Music Theory & Musicianship	4
MUT 2126 Music Theory & Musicianship	4	MVK 2122 Class Piano IV	1
MVK 2121 Class Piano III	0	MUH 3212 Music History and Literature II	GEP
MUH 3211 Music History and Literature I	3	MVX 242X Performance II	2
MVX 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		Spring	
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUG 3104 Basic Conducting	2	MUG 3202 Choral Conducting & Materials	2
MUE 4331 Secondary Choral Methods I	3	MUE 4337 Secondary Choral Methods II	3
EDG 4323 Teaching Strategies and Cl. Mgmt.	3	RED 4043 Content Reading	3
EDF 4603 Critical Analysis of Ethical....	3	MUE XXXX Techniques	1
MVX 4640 Vocal Pedagogy and Literature	2	EME 2040 Intro to Tech for Ed	3
MVX 343X Performance III	2	MVX 343X Performance III	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
CMENC/Schools	0	CMENC/Schools	0
		MUS 3953 Recital Performance I	0
Total	16	Total	15

Senior

Fall		Spring	
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 C – Elementary Program

Freshman

Fall		Spring	
GEP	3	GEP	3
GEP	3	GEP	3
EDF 2005 Intro to the Teaching Prof	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

Fall		Spring	
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP	3	MUE XXXX Techniques	1
GEP	3	EDF 2085 Intro to Diversity for Ed	3
MUE XXXX Techniques	1	MUT 2127 Music Theory & Musicianship	4
MUT 2126 Music Theory & Musicianship	4	MVK 2122 Class Piano IV	1
MVK 2121 Class Piano III	0	MUH 3212 Music History and Literature II	GEP
MUH 3211 Music History and Literature I	3	MVX 242X Performance II	2
MVX 242X Performance II	2	MUN XXXX Ensemble	1
MUN XXXX Ensemble	1	MUE XXXX Techniques	1
CMENC/Schools	0	CMENC/Schools	0
Total	15	Total	16

Apply for Professional Program

Junior

Fall		Spring	
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUG 3104 Basic Conducting	2	MUG 3202 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 Intro to Tech for Ed	3
MVX 343X Performance III	2	MVX 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		Spring	
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.cah.ucf.edu/>

E-mail: musicaud@mail.ucf.edu

Program Coordinator: J. Rupert, 407-823-5411,

E-Mail: jrupert@mail.ucf.edu; Academic Advisor: Kirk Gay, 407-823-5968; Fax 407-823-3378; E-mail: kgay@mail.ucf.edu

Audition Requirements for Admission

- Acceptance into the Department of Music is conditional upon completion of a successful audition. Go to http://music.ucf.edu/admissions_audition.php to learn more about specific audition requirements and recommended repertoire for each instrument and voice.
- The audition will serve as a placement examination for accepted candidates.

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 must take a keyboard placement examination to determine the appropriate level of class piano. Go to <http://music.ucf.edu/> to see the class piano requirements.

- 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 1608
- 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 or MGF 1107 (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)

- 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 3923 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**
MVW 1415 Saxophone I (two semesters) 4 hrs
MVW 2425 Saxophone II (two semesters) 4 hrs
MVW 3435 Saxophone III (two semesters) 6 hrs
MVW 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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.

UCF Degree Programs

Program A: Jazz Trumpet, Trombone, Saxophone

Freshman Year

Fall	14 hrs	Spring	17 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MUT 1121 Music Theory and Musicianship I	4	MUT 1122 Music Theory and Musicianship II	4
MUN 3713 Jazz Ensemble	1	MUN 3713 Jazz 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

Sophomore Year

Fall	17 hrs	Spring	14 hrs
SPC 1608 Fundamentals of Oral Communication	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 3713 Jazz Ensemble	1	MUN 3713 Jazz Ensemble	1
MXV 242X Performance II	2	MXV 242X Performance II	2
MVK 2121 Class Piano III	1	MVK 2122 Class Piano IV	1
MUT 3170 Jazz Theory I	3	MUT 3171 Jazz Theory II	3
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MGF 1106 Finite Mathematics (GEP C.1.)	3	Professional Sequence Entrance Review	

Junior Year

Fall	16 hrs	Spring	13 hrs
GEP B.2. Cultural & Historical Foundation	3	STA 1060C Basic Statistics MS Excel (GEP C2.)	3
MUL 2016 Evolution of Jazz	GEP	MUH 3211/2 Music History and Literature I/II	3
MUT 3923 Jazz Workshop	3	MUT 3923 Jazz Workshop	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	MUS 3953 Recital Performance I	0
MUX 3XXX Restricted Elective	1	MUX 3XXX Restricted Elective	1

Senior Year

Fall	16 hrs	Spring	13 hrs
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
MUT 3923 Jazz Workshop	3	MUT 3923 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

Program B: Jazz Piano, Guitar, Bass, Drum Set

Freshman Year

Fall	15 hrs	Spring	15 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MUT 1121 Music Theory and Musicianship I	4	MUT 1122 Music Theory and Musicianship II	4
MUN 3713 Jazz Ensemble	1	MUN 3713 Jazz Ensemble	1
MXV 1XXX Performance I	2	MUN 1XXX Performance I	2
MXV 121X Secondary Performance	1	MXV 121X Secondary Performance	1
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

Sophomore Year

Fall	17 hrs	Spring	14 hrs
SPC 1608 Fundamentals of Oral Communication	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 3713 Jazz Ensemble	1	MUN 3713 Jazz Ensemble	1
MXV 2XXX Performance II	2	MXV 2XXX Performance II	2
MVK 2121 Class Piano III	1	MVK 2122 Class Piano IV	1
MUT 3170 Jazz Theory I	3	MUT 3171 Jazz Theory II	3
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MGF 1106 Finite Mathematics (GEP C.1.)	3	Professional Sequence Entrance Review	

Junior Year

Fall	15 hrs	Spring	15 hrs
GEP B.2. Cultural & Historical Foundation	3	STA 1060C Basic Statistics MS Excel (GEP C2.)	3
MUL 2016 Evolution of Jazz	GEP	MUH 3211/2 Music History and Literature I/II	3
MUT 3923 Jazz Workshop	3	MUT 3923 Jazz Workshop	3
MXV 3XXX Performance III	3	MXV 3XXX Performance III	3
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUX 3/4XXX Restricted Electives	3	MUS 3953 Recital Performance I	0
		GEP E.1. Science Foundation	3

Senior Year

Fall	16 hrs	Spring	13 hrs
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 3923 Jazz Workshop	3	MUT 3923 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

MUSIC – MUSIC COMPOSITION TRACK (B.M.)

College of Arts and Humanities

Department of Music, CNH 205

<http://www.music.cah.ucf.edu/>

E-mail: musicaud@mail.ucf.edu

Program Coordinator: J. Batzner, 407-823-2864,

E-mail: jbatzner@mail.ucf.edu; Academic Advisor: Kirk Gay, 407-823-5968; Fax 407-823-3378, E-mail: kgay@mail.ucf.edu

Audition Requirements for Admission

- Acceptance into the Department of Music is conditional upon completion of a successful audition. Go to http://music.ucf.edu/admissions_audition.php to learn more about specific audition requirements and recommended repertoire for each instrument and voice.
- The audition will serve as a placement examination for accepted candidates
- Prior to attending the first music class as a music major at UCF, all students must take a keyboard placement examination to determine the appropriate level of class piano. Go to <http://music.ucf.edu/students> to see the class piano 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 level III.

Degree Requirements

- 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 (36 hrs)

(see General Education program for detailed information)

- | | |
|---|-------|
| A. Communication Foundations | 9 hrs |
| Select ENC 1101 and ENC 1102 | |
| Prefer SPC 1608 | |
| 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 or MGF 1107 (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 (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 |

VMX 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4571	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 4401	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, VMX 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

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	14 hrs	Spring	17 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	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
VMX 141X Performance I	2	VMX 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

Sophomore Year

Fall	15 hrs	Spring	16 hrs
SPC 1608 Fundamentals of Oral Communication	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
VMX 242X Performance II	2	VMX 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
MUC 1101C Composition I	2	MUC 2104C Composition II	2
MUG 3104 Basic Conducting	2	MGF 1106 Finite Mathematics (GEP C.1)	3
		Professional Sequence Entrance Review	

Junior Year

Fall	16 hrs	Spring	16 hrs
GEP B.2. Cultural & Historical Foundation	3	STA 1060C Basic Statistics (GEP C.2)	3
MUH 3211 Music History and Literature I	3	MUH 3212 Music History and Literature II	3
MUT 4571 20th Century Musical Analysis	3	MUT 4311 Orchestration	3
MUC 3105C Composition III	3	MUC 3105C Composition 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 Major Ensemble	1	MUH 4XXX Restricted Elective	3

Senior Year

Fall	13 hrs	Spring	13 hrs
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MUC 4106C Composition IV	4	MUC 4106C Composition IV	4
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUX 3/4XXX Restricted Electives	3	MUC 4950 Composition Recital	0
GEP E.2. Science Foundation	3	MUX 3/4XXX Restricted Electives	3
		MUT 4401 Counterpoint	3

MUSIC – MUSIC PERFORMANCE TRACK (B.M.)

College of Arts and Humanities

Department of Music, CNH 205

<http://www.music.cah.ucf.edu/>

E-mail: musicaud@mail.ucf.edu

Academic Advisor: Kirk Gay, 407-823-5968; Fax 407-823-3378,

E-mail: kgay@mail.ucf.edu

Audition Requirements for Admission

- Acceptance into the Department of Music is conditional upon completion of a successful audition. Go to http://music.ucf.edu/admissions_audition.php to learn more about specific audition requirements and recommended repertoire for each instrument and voice.

UCF Degree Programs

- The audition will serve as a placement examination for accepted candidates.

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 must take a keyboard placement examination to determine the appropriate level of class piano. Go to <http://music.ucf.edu/students> to see the class piano requirements.
- 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 1608 | |
| 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 or MGF 1107
(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 (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 |

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements (27 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 |
| MXV 343X | Performance III (two semesters) | 6 hrs |
| MXV 444X | Performance IV (two semesters) | 8 hrs |
| MUS 3953 | Recital Performance I | 0 hrs |
| MUS 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 3XXX | 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 |
| MVV 4640 | Voice Pedagogy I | 2 hrs |
| MUL 3602 | Song Literature | 3 hrs |
| MUN XXXX | Major Ensembles | 2 hrs |
| MUN XXXX | Minor Ensembles | 2 hrs |
| Foreign Language FRE 1120C and FRE 1121C, or | | 8 hrs |
| GER 1120C (or GER 1120H) and GER 1121C, or | | |
| ITA 1120C and ITA 1121C | | |
| 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 3-15 hrs

- Choose one MUT 3XXX or MUT 4XXX course 3 hrs
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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	14 hrs	Spring	17 hrs
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

Sophomore Year

Fall	17 hrs	Spring	15 hrs
SPC 1608 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	

Junior Year

Fall	17 hrs	Spring	14 hrs
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 3/4XXX	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

Senior Year

Fall	14 hrs	Spring	12 hrs
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

Program B: Percussion

Freshman Year

Fall	14 hrs	Spring	17 hrs
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

Sophomore Year

Fall	17 hrs	Spring	15 hrs
SPC 1608 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	

Junior Year

Fall	17 hrs	Spring	13 hrs
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 3/4XXX	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

Senior Year

Fall	15 hrs	Spring	12 hrs
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

Program C: Piano

Freshman Year

Fall	14 hrs	Spring	17 hrs
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
MVP 1411 Piano I	2	MVP 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

Sophomore Year

Fall	16 hrs	Spring	14 hrs
SPC 1608 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
MVP 2421 Piano II	2	MVP 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	

UCF Degree Programs

Junior Year

Fall	15 hrs	Spring	15 hrs
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	3
MUL 3400 Piano Literature I	2	MUL 3401 Piano Literature II	2
MUT 3/4XXX	3	MUX 3/4XXX Restricted Electives	3
MVP 3431 Piano III	3	MVP 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

Senior Year

Fall	15 hrs	Spring	14 hrs
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MVP 4441 Piano IV	4	MVP 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

Program D: Guitar

Freshman Year

Fall	14 hrs	Spring	17 hrs
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

Sophomore Year

Fall	16 hrs	Spring	14 hrs
SPC 1608 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 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	

Junior Year

Fall	16 hrs	Spring	13 hrs
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	3
MUX 3/4XXX Restricted Electives	3	MUL 4437 String Literature and Pedagogy	3
MUT 4571 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

Senior Year

Fall	16 hrs	Spring	14 hrs
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MVS 4346 Guitar IV	4	MVS 4346 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

Program E: Voice

Freshman Year

Fall	15 hrs	Spring	16 hrs
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 Voice I	2	MVP 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

Sophomore Year

Fall	15 hrs	Spring	17 hrs
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
MVP 2421 Voice II	2	MVP 2421 Voice II	2
MUS 3254 Italian and French Lyric Diction	2	SPC 1608 Fundamentals Oral Comm (GEP A.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	

Junior Year

Fall	15 hrs	Spring	15 hrs
MUH 3211 Music History and Literature I	3	MUH 3212 Music History and Literature II	3
MUT 3/4XXX	3	GEP B.2. Cultural & Historical Foundation	3
MVP 3431 Voice III	3	MVP 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

Senior Year

Fall	13 hrs	Spring	14 hrs
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MVP 4441 Voice IV	4	MVP 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

NURSING (B.S.N.)

A. BASIC PROGRAM

(For individuals who are not Registered Nurses)

College of Nursing

HPA 220, 407-823-2744

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

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 by the posted deadline. For application deadlines, please visit <http://www.nursing.ucf.edu/>.
- Application for admission to the University must also be submitted by the program deadline.
- All applicants must have a minimum overall GPA of 3.0.
- At least seven (7) of the nine (9) required prerequisites (Chemistry with Lab, and at least 2 additional courses from Group A and the remainder from Group B) must be completed by the application deadline.

*Chemistry with Lab (required with grade of B- or better)

Group A: [grade of B- (2.75) or better]

- *Microbiology with Lab
- *Anatomy with Lab
- *Physiology with Lab (or A&P I, II)

Group B [grade of C (2.0) or better]

- *Sociology
- *Psychology
- *Developmental psychology
- *Nutrition
- *Statistics

- A standardized test and predetermined cutoff score will be required for acceptance to the College of Nursing. Information regarding this test can be found at <http://www.nursing.ucf.edu>.
- All general education, foreign language, and program prerequisite requirements must be completed 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.
- All applicants must complete a mandatory information session, online or in person, prior to submitting the application.

General Information:

- 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 College of Nursing Undergraduate Student Services Office for an appointment with an advisor.

- Early acceptance may be offered to First-Time-in-College (FTIC) and Direct Connect students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECP). For specific information about early acceptance, contact the College of Nursing or visit the Web site at <http://www.nursing.ucf.edu>.

Graduates are eligible to take the National Council Licensure Examination for registered nurses (NCLEX-RN). The program is accredited by the Commission on Collegiate Nursing Education (CCNE) 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 Education requirements and the Common Program Prerequisites
- Students should consult with an advisor in the College of Nursing Undergraduate Student Services Office 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 (SPC 1608 preferred)	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations MAC 1105 Select STA 2014C	6 hrs
D. Social Foundations Select both SYG 2000 and PSY 2012* Select ECO 2013 or ECO 2023 or POS 2041	6 hrs
E. Science Foundations:** Select BSC 2010C Select CHM 1032 (and lab)	7 hrs

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is six credit hours for General Education Program. However the nursing program prerequisite requires four 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**	3 hrs
SYG 2000	Sociology**	3 hrs
MCB 2004C	Health Microbiology (S****) w/lab	4 hrs
CHM 1032/L	General Chemistry and lab** (S****)	4 hrs
ZOO 3733C	Human Anatomy* (S****) w/lab	4 hrs
PCB 3703C	Human Physiology* (S****) w/lab	4 hrs
STA 2014C	Principles of Statistics**	3 hrs
or 2023		
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 science prerequisite.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements (65 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 4227	Nursing Care of the Adult II	4 hrs
NUR 4227L	Nursing Care of the Adult II Clinical	3 hrs
NUR 4535	Psychiatric Mental Health Nursing	3 hrs
NUR 4535L	Psychiatric Mental Health Nursing Clinical	2 hrs
NUR 4828	Leadership, Management and Role Transition	3 hrs
NUR 4257	Introduction to Critical Care Nursing	3 hrs
NUR 4637	Public Health Nursing	2 hrs
NUR 4637L	Public Health Nursing Clinical	1 hr
NUR 4945L	Nursing Practicum	4 hrs

Any variation from the above must be approved by the College 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).

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.

UCF Degree Programs

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$50 per term
- Part-time Student\$25 per term

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 <i>or</i> STA 2023	3
BSC 2010C	4	ZOO 3733C	4
PSY 2012	3		

Sophomore Year

Fall	16 hrs	Spring	13 hrs
POS 2041 <i>or</i>	3	EUH 2001 <i>or</i>	3
ECO 2013 <i>or</i> ECO 2023		HUM 2230 <i>or</i>	
EUH 2000 <i>or</i>	3	<i>or</i> AMH 2020 <i>or</i> WOH 2022	
HUM 2210		MCB 2004C	4
<i>or</i> AMH 2010 <i>or</i> WOH 2012		*SPC 1608	3
PCB 3703C	4	(One Course:)	3
SOW 3104 <i>or</i>	3	ARH 2050, ARH 2051, MUL	
DEP 2004		2010, THE 2000, REL 2300,	
HUN 3011	3	PHI 2010, LIT 2110, LIT 2120	

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	6-9 hrs		
NUR 3165	3		
NUR XXXX (elective) and/or	3		
NUR 4837	3		

Senior Year

Fall	12-15 hrs	Spring	13-16 hrs
NUR 4227	4	NUR 4637	2
NUR 4227L	3	NUR 4637L	1
NUR 4535	3	NUR 4828	3
NUR 4535L	2	NUR 4257	3
NUR 4837 <i>or</i>	3	NUR 4945L	4
NUR XXXX Elective (If not already taken)	3	NUR XXXX Elective	3

NURSING (B.S.N.)

B. RN TO BSN PROGRAM

(Completion program for individuals who are licensed RNs)

College of Nursing

HPA 220, 407-823-2744

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

E-mail: ucfnurse@mail.ucf.edu

Dean: Jean Leuner; Associate Dean Undergraduate: Linda Hennig;
RN to BSN Coordinator: Barbara Lange

This program is available online. Students must complete all university-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.). Courses are available online and some courses may be offered face-to-face as well. 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 undergraduate GPA of 2.5.

- Completion of program prerequisite courses with at least a grade of "C" (2.0) or better in each course.

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 AA transfer advisor regarding completion of General Education Program requirements.
- Students should consult with an advisor in the College of Nursing Undergraduate Student Services Office for clarification or 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 undergraduate 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 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
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 nursing 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(24 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 4828	Leadership, Management and Role Transition	3 hrs
NUR 4837	Health Care Issues, Policy, & Econ	3 hrs
NUR 4637	Public Health Nursing	2 hrs
NUR 4604L	Practicum in Community and Public Health Nursing for RNs	4 hrs

Upper Division Credit*

27 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 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 4227	Nursing Care of the Adult II	4 hrs
NUR 4227L	Nursing Care of the Adult II Clinical	3 hrs
NUR 4535	Psychiatric Mental Health Nursing	3 hrs
NUR 4535L	Psychiatric Mental Health Nursing Clinical	2 hrs

*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 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$50 per term
- Part-time Student\$25 per term

Sample Plan of Study (assuming general education, foreign language, and nursing pre-requisites are complete)

Semester I		Semester II	
NUR3805	3	NUR 3165	3
NUR 3065	2	NUR 3634 Community Health	3
NUR 3065L	1		

Semester III			
NUR 4837	3		
NUR XXXX (Nursing Elective 1)	3		

Semester IV		Semester V	
NUR 4828 Leadership	3	NUR 4637 Public Health	2
NUR 4XXX (Nursing Elective 2)	3	NUR 4604L 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

- Admission to the nursing program
- Complete general education requirements and prerequisites or AA from a Florida public community college or state university system (SUS)
- Complete CLAST (or exempt)
- Complete foreign language admission requirement

Other

Selected courses may be offered at regional campuses of Daytona, Cocoa, Leesburg, and Ocala.

The RN to BSN coursework is offered online. Some on-campus labs and clinical practice may be required. For more information visit <http://www.nursing.ucf.edu>.

NURSING ACCELERATED SECOND DEGREE C. BACHELOR OF SCIENCE IN NURSING (B.S.N.) OPTION

Note: For detailed information about this program, see the description in the "Accelerated Undergraduate-Graduate Programs" section.

NURSING (B.S.N.)

D. RN TO MSN OPTION

Note: For detailed information about this program, see the description in the "Accelerated Undergraduate-Graduate Programs" section.

NURSING (B.S.N.)

E. AS TO BSN TRACK

Note: For detailed information about this program, see the description in the "Accelerated Undergraduate-Graduate Programs" section.

NURSING (B.S.N.)

F. SCC/UCF ASN to BSN enrollment option

College of Nursing

HPA 220, 407-823-2744

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

E-mail: ucfnurse@mail.ucf.edu

SCC/UCF Concurrent Track Coordinator: Susan Ricci

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 and UCF 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 3.0 or above.
- Been accepted for enrollment and in good standing at SCC ASN program.
- An AA degree from a Florida community college or have met ALL UCF General Education requirements at time of application.
- Met UCF Foreign Language admission requirement.
- Completed pre-requisite coursework for both the UCF and the SCC nursing programs - at time of application.
- 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 an advisor in the College of Nursing Undergraduate Student Services Office 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.

UCF Degree Programs

- 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
 - 1. MAC 1105 (preferred)
 - 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 six credit hours for General Education Program. However the nursing program prerequisite requires four 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. See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4828 | Leadership, Management and Role Transition | 3 hrs |
| NUR 4837 | Health Care Issues, Policy, & Economics | 3 hrs |
| NUR 4637 | Public Health Nursing | 2 hrs |
| NUR 4604L | Practicum in Community and Public Health Nursing for RNs | 4 hrs |

Upper Division Credit*

(27 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 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 4227 | Nursing Care of the Adult II | 4 hrs |
| NUR 4227L | Nursing Care of the Adult II Clinical | 3 hrs |
| NUR 4535 | Psychiatric Mental Health Nursing | 3 hrs |
| NUR 4535L | Psychiatric Mental Health Nursing Clinical | 2 hrs |

*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 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$50 per term
- Part-time Student\$25 per term

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 3634	3
Semester IV	
NUR 4837	3
Semester V	
NUR XXXX (Nursing Elective 1)	3
Semester VI	
NUR XXXX (Nursing Elective 2)	3
4637 Public Health	2
Semester VII	
NUR 4828 Leadership	3
NUR 4604L Practicum	4

ORGANIZATIONAL COMMUNICATION (B.A.)

See Interpersonal/Organizational Communication

PHILOSOPHY (B.A.)

College of Arts and Humanities

Philosophy Department, PSY 220

<http://www.philosophy.cah.ucf.edu/>

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 *or* MGF 1107 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

3. Core requirements*

- A. Core (6 hrs)
 HUM 2210 Humanistic Traditions I
 HUM 2230 Humanistic Traditions II
 PHI 2010 Intro to Philosophy
 PHI 3083 Research Methods
 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)
 Take any two of the following courses:
 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)
 Take two of the following courses:
 PHH 3100 Ancient Philosophy
 PHH 3200 Medieval Philosophy
 PHH 3460 Modern Western Philosophy
 Take one of the following courses:
 PHH 3600 Contemporary Philosophy
 PHH 3510 Marx and Nietzsche
 PHH 3700 American Philosophy
 PHI 3790 African Philosophy

- D. Values and Society (6 hrs)
 Take any two of the following courses:
 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 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
 PHI 4935 Topics in Philosophy of Mind

*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

UCF Degree Programs

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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 1120C* req# Lang/Elect	4	SPN 1121C* 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 1608* 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

Advisor: Jason Burrell (UCF-Daytona), 386-506-3944

The Photography B.S. program is a joint program between the University of Central Florida and Daytona State College.

(This program is offered at UCF at the Daytona Beach Campus. Photography is also available as an area of concentration at the Orlando campus as part of the Art-Studio B.A. and Art-B.F.A. programs.)

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 State 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

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	6 hrs
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
PGY 1403* Fundamentals of Photography	AS
PGY 3610C Photojournalism I	BS

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. AS Required Courses: (49 hrs)

(Completed in the A.S. degree program in Photographic Technology or equivalent coursework)

PGY 1115 Color Materials and Processes	7 hrs
PGY 1403 Fundamentals of Photography	4 hrs
PGY 1800 Photography and the Digital Image	4hrs
PGY 1806 Digital Imaging	4 hrs
PGY 2000 History and Aesthetics of Photography	3 hrs
PGY 2107 Large Format Photography	4 hrs
PGY 2215 Professional Studio Portraiture	4 hrs
PGY 2216 Location Photography	4 hrs
PGY 2300 Field Survey of Professional Workshop	3 hrs
PGY 2470 Advanced Photography Workshop	4 hrs
or	
PGY 2935 Portfolio Workshop	4 hrs
PGY 2650 Editorial 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
or	
ENC 3250 Professional Writing	3 hrs
PGY 3821C Digital Imagery for Photography	3 hrs
PGY 3651C Narrative Editorial Photography	3 hrs
PGY 3653C Advanced Explorations in Editorial Photography	3 hrs
PGY 4472C Photography Workshop/Project	3 hrs
PGY 4228C Advanced Illustrative Photography	3 hrs
PGY 4471 Photography Thesis	3 hrs
PGY 3324 The Professional Environment	3 hrs
PGY 3205C 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 3451C Alternative Processes	3 hrs
PGY 3809C Photography and Web Design	3 hrs
PGY 3751C Videography	3 hrs
PGY 4493C Photography and Art	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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

PHYSICS (B.S.)

College of Sciences

Physics Department, MAP 310, 407-823-2325

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

E-mail: 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.
- AA transfer students are expected to have completed the following courses before enrolling as a Physics major: CHM 2045C, CHM 2046&L, MAC 2311, MAC 2312, MAC 2313, PHY 2048 &L, and PHY 2049&L. These classes are prerequisites for advanced science classes and students entering without these classes will be unable to register for most of the advanced courses.
- Physics majors are discouraged from taking courses as a transient student at a community college, except in situations where one semester of a two semester sequence has already been taken at the community college.
- 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
 - Select ENC 1101 and ENC 1102 6 hrs
 - Prefer SPC 1603 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MAC 2311 4 hrs
 - Prefer COP 3223 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
 - Select PHY 2048 & L (PR:MAC 2311) 4 hrs
 - 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 (should be in the area of specialization) 3 hrs
- 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
 - EEE 5356C Fabrication of Solid State Devices 4 hrs
- Choose nine hours from:
 - EEE 3350 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
 - EEE 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
- 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.

UCF Degree Programs

5. Departmental Exit Requirements

- Students must have at least a 2.0 GPA in all courses counted toward the major
- 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$24.80 per term
- Part-time Student \$12.40 per term

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

Take Chemistry Placement Test ~ <http://chemplacement.sdes.ucf.edu/>

Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall		Spring	
ANT 2000* req# 1D2-GEP	3	ENC 1102 Composition II	3
ENC 1101 Composition I	3	PHY 2048 Phy for Eng Sci I	3
MAC 2311 Calc Anal Geo I	4	PHY 2048L Phy L Eng Sci I	1
CHM 2045C Chem Fund I	4	CHM 2046 Chemistry Fund II	3
		CHM 2046L Chemistry Fund L	1
		MAC 2312 Calc Anal Geo II	4

Sophomore Year

Fall		Spring	
COP 3223 Intro to Prog C	3	MUL 2010* req# 1B2-GEP	3
HUM 2210* req# 1B1-GEP	3	MAP 2302 Dif Equations	3
SPC 1603 Fund Tech Pres	3	PHY 3101 Phy Eng Sci III	3
MAC 2313 Calc Anal Geo III	4	ARH2050 reg#1B3-GEP	3
PHY 2049 Phy for Eng Sci II	3	PHZ 3113 Intro Ther Meth of	3
PHY 2049L Phy L Eng Sci II	1		

Junior Year

Fall		Spring	
PHY3802L Int. Phy Lab	3	POS 2041* req# 1D1-GEP	3
PHY 3752C reg#3-core	3	PHY 3220 Mechanics	3
PHY 3323 Elect Mag I	3	PHY 4324 Elect Mag II	3
PHY 3513 Thermal Phys	3	PHZ 3151 reg#4-spec	3
COP 3502C* req# 4-Spec	3	COP 3503C* req# 4-Spec	3

Senior Year

Fall		Spring	
PHY 4604 Intro to Quantum Mech. I	3	BSC 1005* req# 1E2-GEP	3
PHY 4912 Ind Research	3	PHY 4424* req# 4-Spec	3
COT 4500* req# 4-Spec	3	PHY 4605 Intro to Quantum Mech II	3
PHY 3722C Physics L Elect	3	Physics test See catalog.	0
Elective* Check restrictions	3	Elective* Check restrictions	2
		Elective* Check restrictions	3
		Phys Test-National normed	3

POLITICAL SCIENCE (B.A.)

College of Sciences

Political Science Department, PH 302, 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
- Double major/dual degree policy in Political Science programs and minors
 1. Students who double major/degree in any Political Science track and International and Global Studies shall not count more than two courses, except POS 2041 and POS 3703, toward both programs.
 2. Students who major in International and Global Studies, and minor in Political Science, shall not count more than one course toward both programs, except POS 2041.
 3. Students who major in any Political Science track, and minor in International and Global Studies, shall not count more than one course toward both programs.
 4. Students who double minor in Political Science and International and Global Studies shall not count more than one course toward both programs.
- 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 1608	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	
1. Prefer MGF 1106 or MGF 1107 (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	
POS XXXX*	Any other POS XXXX course	3 hrs

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core (0 hrs)

POS 2041	American National Government	CPP
POS 3703	Scope & Methods of Pol Sci	CPP

4. Upper Division Restricted Electives

Choose one of the following emphases

(30 hrs)

Track 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

Track 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.

Track 3: Prelaw

Please see Political Science - Prelaw for the emphasis requirements.

Track 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)

UCF Degree Programs

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 XXXX*: any six hours of introductory Political Science classes. Since POS 2041 and POS 3703 satisfy the CPP as well as the major's core requirements, students are advised to select POS 2041 and POS 3703 to satisfy the CPP.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$10 per term
- Part-time Student\$5 per term

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 110X* req# 1C1-GEP	3 REL 2300* req# 1B3-GEP	3
POS 2041 Amer National Gvt	3 SPC 1608* 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 1121C* req# Lang/Elect	4
SPN 1120C* 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 - PRELAW TRACK (B.A.)

College of Sciences

Political Science Department, PH 302, 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
- Double major/dual degree policy in Political Science programs and minors
 1. Students who double major/degree in any Political Science track and International and Global Studies shall not count more than two courses, except POS 2041 and POS 3703, toward both programs.
 2. Students who major in any Political Science track, and minor in International and Global Studies, shall not count more than one course toward both programs.
- 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. Select SPC 1608	3 hrs
B. Cultural and Historical Foundations	
1. Prefer AMH 2010	3 hrs
2. Prefer AMH 2020	3 hrs
3. Select from GEP B.2 list	3 hrs
C. Mathematical Foundations	6 hrs
1. Prefer MGF 1106 <i>or</i> MGF 1107 (may substitute a higher level math)	3 hrs
2. Prefer STA 2014C <i>or</i> STA 1060C	3 hrs
D. Social Foundations	
1. Select POS 2041 American National Gvt	3 hrs
2. 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 XXXX*	Any other POS XXXX course	3 hrs

*See Transfer Notes for possible substitutes
See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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:		3 hrs
POS 4603	American Constitutional Law I	
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. Upper Division Restricted Electives

(30 hrs)

- 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 XXXX*: any six hours of introductory Political Science classes. Since POS 2041 and POS 3703 satisfy the CPP as well as the major's core requirements, students are advised to select POS 2041 and POS 3703 to satisfy the CPP.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$10 per term
- Part-time Student\$5 per term

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 110X* req# 1C1-GEP	3 REL 2300* req# 1B3-GEP	3
POS 2041 Amer National Gvt	3 SPC 1608* 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 1120C* req# Lang/Elect	4 SPN 1121C* 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: psychadvising@mail.ucf.edu

Contact: Psychology Advising Center, PSY 250, 407-823-2219;
R. Dipboye, 407-823-2216

- 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 <i>or</i> MGF 1107 (may substitute a higher level math)	3 hrs
2. Select STA 2023 <i>or</i> 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 (<i>or</i> 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 <i>or</i>	GEP
BSC 2010C	(If additional Biology courses are planned)	
PSY 2012	General Psychology	
DEP 2004*	Developmental Psychology	3 hrs
STA 2023*	Statistical Methods I (<i>or</i> STA 2014C)	GEP

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

UCF Degree Programs

3. Core requirements

BSC 1005*	Biological Principles (<i>or</i> BSC 2010C)	(15 hrs)
PSY 2012	General Psychology	GEP
STA 2023*	Statistical Methods I (<i>or</i> 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

A. Experimental. Select two of the following: (27-32 hrs)

EXP 3404	Basic Learning Processes	6-8 hrs
EXP 3204C	Perception	
EXP 3604C	Cognitive Psychology	
PSB 4240C	Neuropsychology	
PSY 3703	Psychology of Language	
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. Math/Science Electives

Select two of the following from outside Psychology (6-8 hrs)
(See course listing for prerequisites)

ANT 2511	The Human Species	(satisfies GEP)
BSC 1050	Biology & Environment	
BSC 2011C	Biology II	
BSC 4312C	Marine Biology	
ENV XXXX	Any ENV prefix course	
GEO XXXX	Any GEO prefix course	
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	
MAC 2233	Concepts of Calculus <i>or</i>	
MAC 2253	Applied Calculus I	
MCB XXXX	Any MCB prefix course	
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 XXXX	Any ZOO prefix course	

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 two semesters equivalent of 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.
- STA XXXX; any lower level STA course will fulfill the CPP. Since STA 2014C *or* STA 2023 are prerequisites for subsequent psychology courses, students are advised to select either to satisfy their CPP.
- DEP 2004; any lower level psychology course will fulfill the CPP. Since DEP 2004 satisfies the CPP as well as psychology restricted elective 4C, students are advised to select DEP 2004 to satisfy their CPP.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$11 per term
- Part-time Student \$5.50 per term

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 110X* req# 1C1-GEP	3	POS 2041* req# 1D1-GEP	3
PSC 1121* req# 1E2-GEP	3	SPC 1603* 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 ASL 2150* req# Lang/Elect	4
ASL 2140* 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

Department of Public Administration

HPA2 238, 407-823-2604

<http://www.cohpa.ucf.edu/pubadm/>

Undergraduate Program Director: Dr. Michael Abels;

E-mail: pa/ba/bs@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 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 or MGF 1107
 - 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 Electives (39 hrs)

Public Administration electives are required as follows:

- PAD majors must complete at least 21 hrs of PAD prefixed electives at the 3000 level or higher.
- 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).
- Those who complete a recognized UCF minor in a discipline outside Public Administration must take a minimum of 18 hrs PAD prefixed electives.
- Double Majors**, those who complete a PAD major, and those of another UCF major, must take a minimum of 15 hrs PAD prefixed electives.

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)
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and armed forces credits permitted.

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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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 or SYG 2000	3
One Course: ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120	3	or ANT 2000	
PAF 2102	2	CHM 1020 or PSC 1121	3
		or AST 2002	
		Elective	3

Sophomore Year

Fall	15 hrs	Spring	15 hrs
SPC 1608	3	PAD 3003	3
EUH 2000 or HUM 2210	3	EUH 2001 or WOH 2022 or HUM 2230 or	3
or AMH 2010 or WOH 2012		AMH 2020	
ECO 2013	3	Elective	3
BSC 1005 or MCB 1310	3	Elective	3
or GLY 1030 or GEO 1200		Elective	3
or ANT 2511			
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
Supporting Elective	3	PAD Elective	3
Foreign Lang I or B.S. option	4/3	Foreign Lang II or B.S. option	4/3

UCF Degree Programs

Senior Year

Fall	15 hrs	Spring	15 hrs
PAD Elective	3	PAD Internship*	6
PAD Elective	3	PAD Elective	3
Supporting Elective	3	Supporting Elective	3
Supporting Elective	3	Elective	3
Supporting Elective	3		

*This can be taken in any of the following combinations: 6 hrs of PAD Internship; 6 hrs of PAD electives; or 3 hrs of PAD Internship and 3 hrs of PAD electives.

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 Nonprofit Management/American Humanics National Certification Program and also offers a certificate in Nonprofit Management.

RADIO-TELEVISION (B.A.)

College of Sciences

Nicholson School of Communication

COMM 238, 407-823-2681

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.
- 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 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
- 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
- A maximum of three 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

1. UCF General Education Program

(36 hrs)

- A. Communication Foundations
 - Select ENC 1101 & ENC 1102 6 hrs
 - Select SPC 1608 *or* SPC 1603 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Prefer MGF 1106 *or* MGF 1107 (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
 - SPC 1603 Fund of Technical Presentations *or*
 - SPC 1608 Fund Oral Communication
- See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements (all areas)

(21 hrs)

- SPC 1603 *or* SPC 1608 GEP 3 hrs
- a. Select one of the following:
 - 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 3 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 3 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:
 - 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:
 - 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
 - RTV 4941 Internship (3 hrs max)

- b. Select 6 hours from the following: 6 hrs
- | | |
|----------|---------------------------|
| ADV 3008 | Principles of Advertising |
| PUR 4000 | Public Relations |
| COM 3110 | Business & Prof. Comm. |
| ENC 3250 | Professional Writing |

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

RADIOLOGIC SCIENCES (B.S.)

College of Health and Public Affairs

Department of Health Professions

HPA2 208, 407-823-2747

<http://www.cohpa.ucf.edu/health.pro/radbs.cfm>

Undergraduate Program Director: Susan Gosnell,

E-mail: sgosnell@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 submitted 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 are Radiologic Sciences Pending and are admitted to the program 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements (76 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 3804L | 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 4555 | Pathophysiologic Mechanisms | 3 hrs |
| RTE 3814L | Clinical Education II | 4 hrs |

Senior Level

- | | | |
|-----------|---------------------------------|-------|
| RTE 4563 | Special Radiographic Procedures | 2 hrs |
| RTE 4782 | Pathophysiology | 2 hrs |
| RTE 4824L | Clinical Education III | 5 hrs |
| RTE 4573 | Advanced Imaging Modalities | 3 hrs |

UCF Degree Programs

RTE 4574	Computed Tomography Protocols <i>or</i> RTE 4579 Mag Resonance Imaging Protocols	1 hr
RTE 4834L	Clinical Education IV	6 hrs
RTE 4385	Radiobiology	1 hr
RTE 4844L	Clinical Education V - A	2 hrs
RTE 4846L	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 4854L	Advanced Clinical Practicum	4 hrs

4. 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, continuation 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).

5. Electives none

6. 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. Students who transfer with a Florida Public Community College AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Graduation: none

7. 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.

Community College Equivalents:

Human Anatomy and Physiology I and II (BSC X085C and BSC X086C <i>or</i> BSC 2093C and BSC 2094C)	8
College Algebra (MAC 1105) <i>or</i> (MAC 1102)	3
College Physics I (PHY 2053C)	4
College Physics II (PHY 2054C)	4
Introduction to Computer Science (CGS 1060C) <i>or</i> CGS X530, CGSX570, CIS X400, CIS X000, CGS X000, CGS X061, CGS X361 (no longer offered), CGS X100	3

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$50 per term
- Part-time Student\$25 per term

Tentative Course Schedule for Entering Freshmen

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 and lab	4	ECO 2013 <i>or</i> POS 2041 <i>or</i> ECO 2023	3
		MUL 2010 <i>or</i> THE 2000 <i>or</i> REL 2300 <i>or</i> PHI 2010 <i>or</i> ARH 2050 <i>or</i> FIL 2030	3

Sophomore Year			
Fall	14 hrs	Spring	14 hrs
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1608	3
EUH 2000 <i>or</i> HUM 2210 <i>or</i> AMH 2010	3	PHY 2054C	4
PSY 2012 <i>or</i> SYG 2000 <i>or</i> ANT 2000	3	EU2001 <i>or</i> HUM 2230 <i>or</i> AMH 2020	3

Junior Year			
Fall	15 hrs	Spring	16 hrs
RTE 3000	3	RTE 3457C	3
RTE 3111C	2	RTE 3814L	4
RTE 3418C	3	RTE 3513C	3
RTE 3503C	3	HSC 4555	3
RTE 3614	2	RTE 3116	3
RTE 3804L	2		
Summer	13 hrs		
STA 2023	3		
RTE 4932	5		
RTE 3308	3		
RTE 4563	2		

Senior Year			
Fall	14 hrs	Spring	12/14 hrs
RTE 4385	1	RTE 4846L	4*
RTE 4762	3	<i>or both</i> RTE 4844L <i>and</i> RTE 4854L	2
RTE 4834L	6		4*
RTE 4573	3	RTE 4782	2
RTE 4574 <i>or</i> RTE 4579	1	RTE 4473	3
		RTE 4206	3

Summer	4/6 hrs
RTE 4846L	4*
<i>or</i>	
RTE 4844L	2
<i>and</i> RTE 4854L	4*

*Completed during the Spring or Summer semester/term.

RADIOLOGIC SCIENCES (B.S.)

A.S. to B.S. TRACK

Note: For detailed information, see description of this program in the Statewide Articulated AS to BS Programs section.

REAL ESTATE (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

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

Not eligible for a double degree with another College of Business Administration major

Admissions Requirements

- Completion of the UCF General Education Program, and Gordon Rule, 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
Preferred: SPC 1608 Fund of Oral Communication	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1140 Pre-Calculus	3 hrs
Select CGS 2100C Computer Fund. For Business	3 hrs
D. Social Foundations	
Select ECO 2013 <i>or</i> 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 hr
ACG 2071	Principles of Managerial Accounting	3 hr
ECO 2013	Principles of Macroeconomics	3 hr
ECO 2023	Principles of Microeconomics	3 hr
*ECO 3401	Quantitative Business Tools I	3 hr
CGS 2100C	Computer Fundamentals for Business	3 hr

*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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes

(36 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3375	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403C	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011C	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 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 2100	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:

FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 3504	Investment Analysis	3 hrs
REE 3614	Environmental Issues for Real Estate	3 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
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 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$30 per term
- Part-time Student \$15 per term

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 1608	3	Art/Music/Lit	3
MAC 1105	3	CGS 2100C	3
Elective***	3	Elective***	3

Must complete nine hours in a Summer term

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 2100	3
Elective***	3	ECO 3401	3

Junior

1st Term	14 hrs	2nd Term	15 hrs
GEB 3031	4	GEB 3375	4
REE 3043	3	MAR 3023	4
REE 3433	3	ECO 3411	4
FIN 3403C	4	REE Elective	3

Senior

1st Term	15 hrs	2nd Term	16 hrs
MAN 3025	4	MAN 4720	4
ISM 3011C	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.

UCF Degree Programs

RELIGIOUS STUDIES (B.A.)

College of Arts and Humanities

Department of Philosophy, PSY 220, 407-823-2273

<http://www.cah.ucf.edu/philosophy/>

E-mail: religion@mail.ucf.edu

Program Director: Claudia Schippert, E-mail: cschippe@mail.ucf.edu

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.
- No more than 3 courses (i.e. 9 credit hours) of 3000 or 4000 level courses applied to the B.A. in Religious Studies may be simultaneously applied to fulfill another major.

1. UCF General Education Program

(36 hrs)

A. Communication Foundations

B. Cultural and Historical Foundations

Select HUM 2210 Humanistic Tradition I

Select HUM 2230 Humanistic Tradition II

Select REL 2300 World Religions

3 hrs

3 hrs

3 hrs

C. Mathematical Foundations

Prefer MGF 1106 Finite Mathematics *or* MGF 1107

(May substitute a higher level math)

Prefer STA 1060C Statistics Using Excel

6 hrs

D. Social Foundations

6 hrs

E. Science Foundations

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

(0 hrs)

GEP

GEP

GEP

b. Foundations in the Study of Religion and the Humanities

(9 hrs)

Select three courses, at least two must be from (1)

(1) Religion

REL 3131 Religion in America

REL 4110 Religion and the Arts

PHI 3700 Philosophy of Religion

ANT 3241 Magic, Ritual, and Belief

POT 4632 Religion and Politics

SYO 4200 Sociology of Religion

(2) Humanities and Classics

CLT 3370 Classical Mythology

CLT 3378 Comparative Mythology

HUM 3431 Ancient Humanities

HUM 3435 Medieval Humanities

HUM 3255 Modern Humanities

HUM 3252 Contemporary Humanities

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

REL 3340 Buddhist Thought

ANT 3245 Native American Religions

JST 3401 The Jewish People I

or JST 3402 The Jewish People II

d. Applications: Topics and Issues in the Study of Religion

(6 hrs)

Select two courses:

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

REL 4932 Religion and Medicine

HUM 4554 Religious Quest and the Human Dilemma

HUM 4303 The Spiritual Ideal

PHI 3672 Animal Ethics

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):

REL 4941	Spiritual Care Internship
HUM 3320	Contemporary Multicultural Studies
HUM 4301	The Classical Ideal
HUM 4330	Performance Theory
PHI 4321	Philosophy of Embodiment: Mind/Body/Self
PHI 3629	Family Values
PHI 3638	Ethical Issues in the 21st Century
PHI 3684	Ways of Living
PHM 3020	Philosophy of Love
PHI 4341	Ways of Knowing
PHI 4804	Critical Theory
PHM 3100	Freedom and Justice
PHP 3786	Existentialism
AML 3615	Harlem, Haiti, and Havana
ASH 3222	Islam and its Empires
ASH 3223	The Modern Middle East
JST 3100	The Hebrew Creative Mind
JST 3125	The Book of Job
JST 3144	Dead Sea Scrolls
JST 3450	Modern Jewish Experience
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 4374	Literature of the Bible
LIT 3202	Death and Dying

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. Departmental Exit Requirements

(3 hrs)

- 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.

6. 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, Elective Requirements, and Senior Seminar

(36 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

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

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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 1120C* req# Lang/Elect	SPN 1121C* 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	HUM 3417* req# 3c-Tradtns	3
HUM 3252* req# 4-ResElect	REL 4110* req# 3b-Foundn	3
JST 3401* req# 3c-Tradtns	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 3340* req# 4 3c-Tradtns	REL 4910 Seminar	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, FL 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 or STA 2023 Statistical Methods I 3 hrs
- D. Social Foundations 3 hrs
 - Select ECO 2013 Macroeconomics or
 - Select ECO 2023 Microeconomics
 - Select one: PSY 2012, SYG 2000, ANT 2000
- E. Science Foundation 6 hrs

2. Common Program Prerequisites (3 hrs)

- HFT 1000 Introduction to Hospitality Management 3 hrs
- See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Foundations

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 (28 hrs)

HFT 2401	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 3603	Legal Environment in Hospitality	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 3540	Guest Services Management	3 hrs
HFT 4464	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.

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 4457	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

UCF Degree Programs

- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$75 per term
- Part-time Student \$37.50 per term

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	15 hrs	Spring	15 hrs
ENC 1101 Eng Comp I	3 hrs	ENC 1102 Eng Comp II	3 hrs
Cult/Hist Found Sequence I	3 hrs	SPC 1608 Fund Oral Comm	3 hrs
CGS 2100C <i>or</i> 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, <i>or</i> ANT 2000	3 hrs	FSS 2221C Quant Food Prep	3 hrs

Sophomore Year

Fall	15 hrs	Spring	15 hrs
Science Foundation I	3 hrs	Science Foundation II	3 hrs
ECO 2013 <i>or</i> ECO 2023	3 hrs	Cult/Hist Foundation	3 hrs
HFT 3263 Restaurant Mgmt	3 hrs	FSS 3124 Sup & Prod Mgmt	3 hrs
HFT 2401 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	14 hrs	Spring	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	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 3603 Legal Environment	3 hrs

Senior Year

Fall	15 hrs	Spring	15 hrs
HFT 4286 Communications	3 hrs	HFT 4464 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://education.ucf.edu/science/>

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.
- Meet Foreign Language Admission 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 1608 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 <i>or</i> MGF 1107	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+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 the Teaching Profession	3 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4242	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 required 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.education.ucf.edu/clinicalexp/>.
- 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
SCE 3940 Internship I	3 hrs

6. Specialization Requirements	(25 hrs)
CHM 2205 Intro to Organic and Biochemistry	5 hrs
CHM 2046 Chemistry Fundamentals II	3 hrs
CHM 2046L Chemistry Fundamentals Lab	1 hr
PCB 3044 Ecology	3 hrs
PCB 3044L Ecology Lab	1 hr
MCB 3020C Microbiology	5 hrs
SCE 4361 Programs in Teaching Science	3 hrs
PCB 3703C Human Physiology <i>or</i>	4 hrs
ZOO 3733C Human Anatomy <i>or</i>	4 hrs
PCB 3063 and Genetics	3 hrs
PCB 3063L Genetics Lab	1 hr

- 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 <http://www.education.ucf.edu/clinicalexp/>.

7. Internship II	(12 hrs)
SCE 4941 Internship II	12 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-5.066.

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

12. Recommended Four Year Sequence of Courses

Freshman Year			
Fall	12 hrs	Spring	16 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	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 1608 Fund of Oral Comm	3
Summer	6 hrs		
EME 2040 Intro to Tech 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 or	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	CHM 2046 Chemistry Fund. II	3
PCB 3044 Ecology	3	CHM 2046L Chemistry Fund. Lab	1
PCB 3044L Ecology Lab	1	SCE 4361 Prog in Teach Science	3
PCB 3703C Human Physiology <i>or</i>	4		
ZOO 3733C Human Anatomy <i>or</i>			
PCB 3063 Genetics and			
PCB 3063L Genetics Lab			
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	SCE 4941 Internship II	12
SCE 3940 Internship I	3		
SCE 4360 Science Instructional Analysis	4		
EEX 4242 Teaching Exceptional Students in Secondary Settings	3		

SCIENCE EDUCATION - CHEMISTRY (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://education.ucf.edu/science/>

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.
- Meet Foreign Language Admission 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 1608 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 <i>or</i>	3 hrs	
STA 2014C Principles of Statistics		

UCF Degree Programs

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 the Teaching Profession	3 hrs
EDF 2085 Introduction to Diversity for Educators	3 hrs
EME 2040 Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4242 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 chemistry 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 required 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.education.ucf.edu/clinicalexp/>.
- 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
SCE 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 I	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 4361 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 <http://www.education.ucf.edu/clinicalexp/>.

7. Internship II	(12 hrs)
SCE 4941 Internship II	12 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-5.066.

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

12. Recommended Four Year Sequence of Courses

Freshman Year			
Fall	13 hrs	Spring	12 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	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 Intro to Tech for Educators	3		
POS 2041 American National Gov	3		
Sophomore Year			
Fall	14 hrs	Spring	13 hrs
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 1608 Fund of Oral Comm	3	EDF 2130 Child and Adol Dev Ed*	3
		STA 2014C Prin of Statistics or	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.

Junior Year			
Fall	16 hrs	Spring	14 hrs
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 4242 Teaching Exceptional Students in Secondary Settings	3	CHS 3501 Intro to Forensic Science	3
		RED 4043 Content Reading K-12	3

CHM 2210 Organic Chemistry I	3	SCE 4361 Prog in Teachg Science	3
CHM 3120 Analytical Chemistry	3		
CHM 3120L Analytical Chemistry Lab	1		
Summer	3 hrs		
TSL 4080 Theory & Prac of Teach ESOL	3		
Students in Schools			

Senior Year

Fall	13 hrs	Spring	12 hrs
BCH 4053 Biochemistry I	3	SCE 4941 Internship II	12
EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch	3		
SCE 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://education.ucf.edu/science/>

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.
- Meet Foreign Language Admission 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)

- Communication Foundation (9 hrs)
 - ENC 1101 English Composition I 3 hrs
 - ENC 1102 English Composition II 3 hrs
 - Prefer SPC 1608 Fundamentals of Oral Communication 3 hrs
- Cultural-Historical Foundation (9 hrs)
 - Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
 - Prefer: PHI 2010 Introduction to Philosophy 3 hrs
 - Prefer: AMH 2020 U.S. History 1877-present 3 hrs
- Mathematical Foundation (6+1 hrs)
 - Select: MAC 2311 Calculus with Analytic Geometry I 4 hrs
 - Prefer: STA 1060C Basic Statistics using MS Excel *or* STA 2014C Principles of Statistics 3 hrs
- Social Foundation (6 hrs)
 - Prefer: POS 2041 American National Government 3 hrs
 - Prefer: PSY 2012 General Psychology 3 hrs
- Science Foundation (6 hrs)

A grade of "C-" (1.75) is required.

 - Select: PSC 1121 Physical Science 3 hrs
 - Prefer: ANT 2511 The Human Species *or* Species BSC 1005 Biological Principles 3 hrs

2. Education Common Program Prerequisites (9 hrs)

Note: Students are advised to take the preferred courses.

EDF 2005	Introduction to the Teaching Profession	3 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4242	Teaching Exceptional Students in Secondary Settings	3 hrs
RED 4043	Content Reading K-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 physics 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 required 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.education.ucf.edu/clinicalexp/>.
- 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
SCE 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 4361	Programs in Teaching Science	3 hrs
PHY 3752C	Physics of Scientific Instruments or	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.education.ucf.edu/clinicalexp/>.

7. Internship II (12 hrs)

SCE 4941	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.

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.)

UCF Degree Programs

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

12. Recommended Four Year Sequence of Courses

Freshman Year			
Fall	12 hrs	Spring	16 hrs
EDF 2005 Intro to the Teaching Prof	3	MAC 2311 Cal with Anal Geometry I	4
ENC 1101 English Composition I	3	EDF 2085 Intro to Diversity for Ed	3
PSY 2012 General Psychology	3	SPC 1608 Fund of Oral Comm	3
STA 1060C Basic Stat using MS Excel	or 3	ENC 1102 English Composition II	3
STA 2014C Principles of Statistics		PHI 2010 Intro to Philosophy	3
Summer	6 hrs		
EME 2040 Intro to Tech 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	or 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 4242 Teaching Exceptional Students in Secondary Settings	3	PHY 2049 Physics Eng & Scient 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 4361 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	SCE 4941 Internship II	12
SCE 3940 Internship I	3		
SCE 4360 Science Instructional Analysis	4		
PHY 3752C Physics of Sci Instruments or	3		
PHY 3722C Physics Lab Electronics			

SOCIAL SCIENCE EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://education.ucf.edu/ssed/>

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 1608 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 or MGF 1107	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. 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 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 the Teaching Profession	3 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs

Note: In addition to EDF 2085, 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4242	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 required 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.education.ucf.edu/clinicalexp/>.

5. Internship I Block (6 hrs)

SSE 4361	Social Science Instructional Analysis	3 hrs
SSE 3940	Internship I	3 hrs

6. Specialization Requirements (30 hrs)

SSE 4936	Programs in Teaching Social Science	3 hrs
GEO 3471	World Political Geography	3 hrs
	Upper Division Non Western History Elective: (LAH, AFH, or ASH prefix courses 3/4XXX)	3 hrs
	Upper Division Political Science Electives (POS, INR, or 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, or 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 (12 hrs)

SSE 4941	Internship II	12 hrs
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- 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 <http://www.education.ucf.edu/clinicalexp/>.
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oaas.ucf.edu/alc/academic_learning_compacts.htm

12. Recommended Sequence of Program Courses:

Freshman Year

Fall	12 hrs	Spring	12 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	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 or	3
		BSC 1005 Biological Principles	

Summer	6 hrs
EME 2040 Intro to Tech for Educators	3
SPC 1608 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 or			
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 Anal	3
EDG 4410 Teach Strat & Class Mgmt	3	SSE 3940 Internship I	3
SSE 4936 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	3	SSE 4941 Internship II	12
EEX 4242 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, 407-823-3744

<http://sociology.ucf.edu/>

E-mail: sociology@ucf.edu

Contact: J. Corzine, 407-823-3744

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.

UCF Degree Programs

- 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
 - Prefer MAC 1105 College Algebra (or higher) 3 hrs
 - Select STA 1060C or STA 2014C or STA 2023 3 hrs
- D. Social Foundations
 - Select ECO 2013 or POS 2041, depending on concentration to be followed 3 hrs
 - 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
- ANT 2000 or PSY 2012 or SYG 2000

*See Transfer Notes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements

(3 hrs)

- STA 1060C or STA 2014C or STA 2023
- Select one course
 - 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
 - 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
 - *ECO 2013 Principles of Macroeconomics 3 hrs
 - *ECO 2023 Principles of Microeconomics 3 hrs
 - Select three more Economics courses 9 hrs
- C. Political Science
 - *POS 2041 American National Government 3 hrs
 - Select four more Political Science courses 12 hrs
- D. Psychology
 - *PSY 2012 General Psychology 3 hrs
 - PPE 3003 Personality Theory 3 hrs
 - Select three more Psychology courses 9 hrs
- E. Public Affairs
 - 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
 - *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 year of college instruction in either a foreign language, three semesters equivalent of American Sign Language, or one course with a multicultural dimension. Standardized examinations 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

SOCIAL WORK (B.S.W.)

College of Health and Public Affairs

HPA 204, 407-823-2114

<http://www.cohpa.ucf.edu/social/>

E-mail: socialwk@mail.ucf.edu

Director: John Ronna;

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 are pending Social Work and are admitted to the program 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 **or** SOW 4941 Part time) 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 1608
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Math **or** MGF 1107
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
Prefer PSC 1121 **or** AST 2002

2. Common Program Prerequisites* (15 hrs)

- POS 2041 American Government GEP
- BSC 1005 Biology GEP
- ECO 2013 **or** Macroeconomics **or** 3 hrs
ECO 2023 Microeconomics
- PSY 2012 Psychology GEP
- SYG 2000 Sociology 3 hrs

*See Transfer Notes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 **or** Field Education (for full-time students) **or** 9 hrs
SOW 4941 Field Education (for part-time students over two semesters)
- 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, ASL 3444, SYD 3700, EDF 2085, 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
- 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.

Certificates: Aging Studies, Children's Services, Addictions.

Related Minors: Health Services Administration, Aging Studies, Psychology, Sociology, Non-Profit Management/American Humanities.

Honors in the Major Requirements

1. Complete a three-credit directed reading course/or a three-credit COHPA Interdisciplinary Honor course.
2. Complete a three-credit thesis course.
3. Earn a 3.5 GPA in your Social Work major.
4. Earn a cumulative 3.2 GPA in your total UCF courses.
5. 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Tentative Course Schedule for Entering Freshmen

Freshman Year			
Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
BSC 1005	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	
		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
SPC 1608	3	AST 2002	
SOW 2020	3	Elective	3
Foreign Lang I or Cult. Diversity	3/4	EUH 2001 or	3
		HUM 2230 or AMH 2020	
		Elective	3

UCF Degree Programs

Summer	6		
SOW 3401 <i>or</i> SOW 3300 <i>or</i> SOW 3620	3		
SOW 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 <i>or</i> Elective	3	Elective	3
Summer	9		
SOW 3620	3		
SOW 4343	3		
SOW Elective	3		
Senior Year			
Fall	15 hrs	Spring	12/15 hrs
SOW 4232	3	SOW 4510 <i>or</i>	9/5
SOW 4341	3	SOW 4941 (for part-time students)	
SOW 4343	3	SOW 4522	3
SOW 4730	3	Elective	3
Elective	3		
Summer (for part-time students only)	4 hrs		
SOW 4941	4		

SOCIOLOGY (B.A.)

College of Sciences

Department of Sociology, PH 403, 407-823-3744

<http://sociology.ucf.edu/>

E-mail: sociology@mail.ucf.edu

Contact: J. Corzine, 407-823-3744

The Sociology curriculum emphasizes critical examination of various components of society. The purpose of the curriculum is to increase students' social awareness and their abilities to employ a sociological perspective to interpret social institutions and behavior. 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.

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.
- Directed Independent studies, directed independent research, and internships must be approved by the Sociology department prior to enrollment.
- No more than 12 hours of directed independent study, directed independent research, and internship (course numbers 3905, 4906, 5907, 4912, 5917, 3940, 4941) credit may be used for the 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements (15 hrs)

- SYG 2000 General Sociology GEP
- SYA 3400C Applied Social Statistics 4 hrs
- SYA 4300C Research Methods 4 hrs
- SYA 4450 Data Analysis 4 hrs
- SYA 3110 Social Theory 3 hrs

4. Restricted Electives (27 hrs)

Select from the following

- SYA 3120 Modern Sociological Thought
- SYA 4650C Applied Sociology
- SYA 5625 Proseminar
- SYA 5937 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 Sociological Perspectives 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 3 to 6 semester hours of Internship in SYA 3940, SYA 4941, *or* SYA 5944. Arrangements for Internships are coordinated by the Department Internship Supervisor 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 in their graduating semester.

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 three semesters equivalent of 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 (e.g., syllabus, course catalog description).
- SYG 2000*; although the CPP accepts any lower division sociology course, students should realize that SYG 2000 is a prerequisite for subsequent courses.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$15 per term
- Part-time Student \$7.50 per term

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

Take Math Placement Test ~ <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall	Spring	
ENC 1101 Composition I	ENC 1102 Composition II	3
MAC 1105* req# 1C1-GEP	STA 2014C Prin of Statistics	3
SYG 2000 General Sociology	SYG 2010 Social Problems	3
SPN 1120C* req# Lang/Elect	Elective* Check restrictions	3
POS 2041* req# 1D1-GEP	SPN 1121C* req# Lang/Elect	4

Sophomore Year

Fall	Spring	
ANT 2511* req# 1E2-GEP	COM 1000* req# 1A3-GEP	3
EUH 2001* req# 1B1-GEP	REL 2300* req# 1B2-GEP	3
SYD 3700* req# 4-ResElect	SYD 3410* req# 4 - Res elect	4
Elective* Check restrictions	SYD 3800* req# 4-ResElect	3
Elective* Check restrictions	Elective* Check restrictions	3

Junior Year

Fall	Spring	
PSC 1121* req# 1E1-GEP	PHI 2010* req# 1B3-GEP	3
SYA 4300C Res Methods	SYA 3110 The Dev of Soc Ht	3
SYD 3410* req# 4-ResElect	SYA 4450 Data Analysis	4
SYA 3400C Res Meth & Stat	SYO 4100* req# 4-ResElect	3
	Elective* Check restrictions	3

Senior Year

Fall	Spring	
SYA 3120* req# 4-ResElect	SYP 3510* req# 4-ResElect	3
SYO 3530* req# 4-ResElect	SYP 3520* req# 4-ResElect	3
Elective* Check restrictions	SYP 4000* req# 4-ResElect	3
Elective* Check restrictions	Elective* Check restrictions	3
Elective* Check restrictions		3

SPANISH (B.A.)

College of Arts and Humanities

Department of Modern Languages & Literatures

CNH 523

<http://ml.cah.ucf.edu/>

E-Mail: forlang@mail.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 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 <i>or</i> MGF 1107 (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 1120C*	Elem Spanish Lang & Civ I	4 hrs
SPN 1121C*	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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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
<i>or</i>		
SPW 3130 & 3131	Survey of Latin-American Literature	6 hrs

*A native or near-native Spanish speaker must substitute an alternate upper division Spanish course in consultation with a departmental advisor.

UCF Degree Programs

4. Upper Division Restricted Electives

a. Select one of the following

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)

c. Culture and Civilization

SPN 4510	Spanish Civ & Culture <i>or</i>
SPN 4520	Latin American Civ & Culture

d. Spanish courses

(21 hrs)
3 hrs

6 hrs

3 hrs

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

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	3	ENC 1102 Composition II	3
ENC 1101 Composition I	3	STA 1060C* req# 1C2-GEP	3
MGF 1106* req# 1C1-GEP	3	SPN 1121C* req# 2-CPP	4
SPN 1120C* req# 2-CPP	4	Elective* Check restrictions	4
Elective* Check restrictions	3		

Sophomore Year

Fall		Spring	
AMH 2010* req# 1B1-GEP	3	BSC 1005* req# 1E2-GEP	3
ARH 2050* req# 1B3-GEP	3	MUL 2010* req# 1B2-GEP	3
POS 2041* req# 1D1-GEP	3	COM 1000* req# 1A3-GEP	3

PSC 1121* req# 1E1-GEP
SPN 2200* req# 2-CPP

3 SPN3234 * req# 2-CPP
3 Elective* Check restrictions

Junior Year

Fall		Spring	
SPN 3300 Adv Spa Gram Comp	3	SPW 3101* req# 3-Core	3
SPN 3420 Spanish Comp	3	SPN 4780* req# 4a-ResElec	3
SPN 3760 Adv Spa Oral Com	3	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	3	SPW 3131* req# 4b-ResElec	3
SPN 4520* req# 4c-ResElec	3	SPW 4381* req# 4b-ResElec	3
SPN 5705* req# 4d-ResElec	3	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 ED 209

<http://pegasus.cc.ucf.edu/~sportfit/>

Program Coordinator: Dr. Debby Mitchell, ED 320H;

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.

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 1608 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 <i>or</i> MGF 1107	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		(7 hrs)
1. Prefer: PSC 1121 Physical Science	3 hrs	
2. Select: BSC 2010C Biology I	4 hrs	

2. Lower Division Electives (13 hrs)

Students may select other electives but are advised to take the following courses to improve their preparation for their specialization. (Choose courses with prefixes: PEL, PEM, PEO, PET, DAE, HFT, EEX, EDF, EDG, HSC, HUN, CHM)

3. Sports and Fitness Pre-requisite Courses (3 hrs)

PET 3137 Concepts and Practices in Sports and Fitness 3 hrs

Note: Students who transfer from another institution may be permitted to take the prerequisite course, PET 3137-Concepts and Practices, concurrently with the remaining core classes in their first term of enrollment in the Sports and Fitness program."

4. Sports and Fitness Co-requisite Courses (7 hrs)

PET 2622C Human Injuries 3 hrs
ZOO 3736C Exercise Physiology Anatomy 4 hrs

Note: BSC 2093C and PET 2622C 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.

5. Sports & Fitness Core (9 hrs)

SPM 3504 Fiscal and Facilities Issues in Sports and Fitness 3 hrs
PET 4401 Administration & Evaluation in Physical Education 3 hrs
SPM 4723 Legal Issues in Sports and Fitness 3 hrs

6. Specialization (33 hrs)

Select one Specialization and Electives – approved by advisor

Coaching

PET 3765 Coaching Theory 3 hrs
PET 3771 Fitness and Conditioning Concepts 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4763 Coaching Methods and Principles 3 hrs
SPM 3204 Sports and Ethics 3 hrs
SPM 3415 Public Relations in Sports and Fitness 3 hrs

Coaching Specific Class

Select one (as approved by advisor) 3 hrs

PEO 2624 Coaching Basketball
PEO 3324 Coaching Volleyball
PEO 3644 Coaching Football

Select nine hours of electives (as approved by Advisor) 9 hrs

Fitness Training

PET 3361 Nutrition for Sports and Fitness 3 hrs
PET 3771 Fitness and Conditioning Concepts 3 hrs
PET 3768 Group Exercise Instruction 3 hrs
PET 4083 Practical Fitness Training 3 hrs
PET 4351C Applied Exercise and Human Physiology 3 hrs
PET 4550 Fitness Assessment 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
SPM 3415 Public Relations in Sports and Fitness 3 hrs
Select six hours of electives (as approved by Advisor) 6 hrs

Physical Activity & Movement for Children

DAE 3370 Dance and Rhythmics 3 hrs
PEO 3041 Games Analysis 3 hrs
PET 3820 Teaching Sports Skills I 3 hrs
PET 4050C Motor Development and Learning 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4351C Applied Exercise and Human Physiology 3 hrs
PET 4550 Fitness Assessment 3 hrs
Select twelve hours of electives (as approved by Advisor) 12 hrs

Physical Human Performance

PET 3361 Nutrition for Sports and Fitness 3 hrs
PET 3771 Fitness and Conditioning Concepts 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4351C Applied Exercise and Human Physiology 3 hrs
PET 4550 Fitness Assessment 3 hrs
PET 4625 Human Injuries - Mechanisms and Prevention 3 hrs
Select twelve hours of electives (as approved by Advisor) 12 hrs

Recreation

PEO 3041 Games Analysis 3 hrs
PET 3765 Coaching Theory 3 hrs
SPM 3130 Aquatic Management 3 hrs
PET 3771 Fitness and Conditioning Concepts 3 hrs
PET 3820 Teaching Sports Skills I 3 hrs

PET 4002 Outdoor and Leisure Activities 3 hrs
SPM 3204 Sports and Ethics 3 hrs
SPM 3415 Public Relations in Sports and Fitness 3 hrs
Select nine hours of electives (as approved by Advisor) 9 hrs

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).

7. Sports & Fitness Practica (18 hrs)

PET 4925 Sports and Fitness Practicum I 6 hrs
PET 4926 Sports and Fitness Practicum II 12 hrs

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.

8. 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.)

9. 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.
- Complete three Specialization Certifications.
- Participation in event operations of a minimum of one major sports and fitness event.
- Successful completion of 18 hours of Practicum Experiences.

10. Total Program Semester Hours Required 120 hrs

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

11. Recommended Four-Year Sequence of Courses

Freshman Year

Fall	12 hrs	Spring	16 hrs
PSY 2012 General Psychology	3 hrs	POS 2041 American National Gov	3 hrs
ENC 1101 English Composition I	3 hrs	BSC 2010C Biology I	4 hrs
PSC 1121 Physical Science	3 hrs	ENC 1102 English Composition II	3 hrs
Elective	3 hrs	MGF 1106 Finite Mathematics	3 hrs
		SPC 1608 Fund of Oral Comm	3 hrs

Sophomore Year

Fall	14 hrs	Spring	15 hrs
GEP B.1	3 hrs	PET 2622C Human Injuries	3 hrs
STA 1060C Basic Stats using MS Excel	3 hrs	GEP B.1	3 hrs
STA 2014C Principles of Statistics	3 hrs	PET 3137 Concepts & Prac in Sports & Fi	3 hrs
CGS 1060C Intro to Computer Sci	3 hrs	Elective	3 hrs
ZOO 3736C Human Anatomy with Lab	4 hrs	Elective	3 hrs
Elective	4 hrs		

UCF Degree Programs

Summer	6 hrs		
GEP B.2	3 hrs		
Elective	3 hrs		
Junior Year			
Fall	12 hrs	Spring	15 hrs
SPM 4723 Legal Issues in Sports & Fit	3 hrs	Specialization course	3 hrs
PET 4401 Administration & Evaluation	3 hrs	Specialization course	3 hrs
SPM 3504 Fiscal and Facilities	3 hrs	Specialization course	3 hrs
Specialization course	3 hrs	Specialization course	3 hrs
Summer	3 hrs		
Specialization course	3 hrs		
Senior Year			
Fall	15 hrs	Spring	12 hrs
PET 4925 Sports & Fit Practicum I	6 hrs	PET 4926 Sports & Fit Practicum II	12 hrs
Specialization course	3 hrs		
Specialization course	3 hrs		
Specialization course	3 hrs		

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 and Actuarial Science 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 or 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 or PHY 2053C | GEP |
| COP 3223* | Intro to Programming in C* |
| | 3 hrs |

*May substitute an approved programming language course

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|----------------------|--|-------|
| 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 |
|---|--|-------|

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|------------------|---|--|
| 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 College of Medicine Burnett School 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 and Actuarial Science 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) and report the score to the department.
- 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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

Take Math Placement Test - <http://mathplacement.sdes.ucf.edu/>

Freshman Year

Fall	Spring
BSC 2010C Biology I	4 ENC 1102 Composition II
ENC 1101 Composition I	3 PHY 2053C College Physics I
MAC 2311 Calc Anal Geo I	4 STA 2023 Stat Methods I
MUL 2010* req# 1B2-GEP	3 MAC 2312 Calc Anal Geo II

Sophomore Year

Fall	Spring
AMH 2010* req# 1B1-GEP	3 COP 3223 Intro to Prog C
ARH 2050* req# 1B3-GEP	3 STA 4164 Stat Methods III
POS 2041* req# 1D1-GEP	3 MAS 3105* req# 3a-Core
MAC 2313 Calc Anal Geo III	4 PHY 2054C College Physics II
STA 4163 Stat Methods II	3

Junior Year

Fall	Spring
COP 3502C Computer Science I	3 ENC 3241 Wr the Tech Prof
STA 4321 Stat Theory I	3 STA 4322 Stat Theory II
COT 3100C* req# 3b-Core	3 STA 4222* req# 3c-Core
STA 4664* req# 3c-Core	3 BSC 2011C* req# 3e-Core
STA 4183* req# 4-ResEle	3 Elective* Check restrictions

Senior Year

Fall	Spring
COT 4500 Numerical Calculus	3 PSY 1012* req# 1D2-GEP
STA 4102 Comp Oroc of Stat	3 SPC 1603* req# 1A3-GEP
STA 4502* req# 3c-Core	3 Elective* Check restrictions
STA 4130* req# 4-ResEle	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

Take SOA EXAM

TECHNICAL EDUCATION AND INDUSTRY TRAINING (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://education.ucf.edu/teched/>

Program Coordinator: Dr. Jo Ann M. Whiteman, ED 115D, 407-823-2848 or 407-325-6293; E-mail: jwhitema@mail.ucf.edu

This program offers upper division courses via the World Wide Web. 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
- Meet Foreign Language Admission 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. Some students are full-time or part-time teachers in the public school sector, including middle schools, high schools, adult technical centers and community colleges. Some serve as technical education teachers with the Department of Corrections. Other program participants are retired military personnel who were technicians or trainers and now wish to become teachers or industry-specific trainers. All students have set a common goal of attaining a bachelor's degree in an area that draws upon their experiences, interests, and expertise. This degree does not lead to initial teacher certification at the state level.

1. UCF General Education Program*

(36 hrs)

- A. Communication Foundation
 - 1. ENC 1101 English Composition I 3 hrs
 - 2. ENC 1102 English Composition II 3 hrs
 - 3. Prefer SPC 1608 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 the Teaching Profession 3 hrs
- EDF 2085 Introduction to Diversity for Educators 3 hrs
- EME 2040 Introduction to Technology for Educators 3 hrs

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 *or* 3 hrs
- EVT 3371 Course Const Industrial Ed *or*
- BTE 4410 Course Const Business Ed

4. Technical 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 Technical Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience. This supervised internship may be completed in an educational or industrial setting, or with the UCF program faculty assisting in teaching web-based courses.

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.)

8. Departmental Exit Requirements*

- Achieve a minimum 2.5 GPA in all courses within the major.

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)

UCF Degree Programs

10. Total Program Semester Hours Required: 120 hrs

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alac/academic_learning_compacts.htm

11. 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 1608 Fund of Oral Comm	3	STA 1060C Basic Stat MS Excel	or 3
Cultural-Historical Foundations Course	3	STA 2014C Principles of Statistics	
Social Foundations Course	3	Cultural-Historical Found Course	3
		Cultural-Historical Found Course	3
		Social Foundations Course	3

Sophomore Year

Fall	12 or 16 hrs	Spring	12 or 16 hrs
EDF 2005 Intro to the Teaching Prof	3	EDF 2085 Intro to Diversity for Ed	3
EME 2040 Intro to Tech 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 Studen	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	12
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.cah.ucf.edu>

Acting: Be Boyd, 407-823-2862, E-mail: bbboyd@mail.ucf.edu

Design & Technology and Stage Management: Bert Scott, 407-823-2862, 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 Undergraduate Coordinator.
- The departmental faculty evaluates students desiring to become BFA majors via an interview and either audition or portfolio review as appropriate to the specialization. For complete information, 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 need not be expensive and 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 for information on scheduling 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.
- The BFA plan of study requires a fall start for proper course sequencing. Students are not accepted to begin in the Spring or Summer semesters.

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 or toward total theatre credits. Earning a grade less than "C" (2.0) in any theatre course will cause the student to be placed on departmental probation for one semester which causes him/her to be ineligible for casting or other department production positions. If grades improve probation is lifted.
- 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. Students who do not consult with their department advisor will be placed on departmental probation which causes him/her to be ineligible for casting or other production positions. Repeated failure to consult with a department advisor may lead to release from the program.
- 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 level one design or technical direction elective courses following the completion of Scenography. Design & Technology Students are also required to take at least one level two design or technical direction elective course.
- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course in the term in which they participate. 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. Students may also use additional participation credits as electives.
- The department will accept one credit of Theatre Participation coursework for students transferring into the program. Any additional transfer participation credits will count toward electives.
- Students must follow the most recent department student handbook.
- 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 3 hrs
- Design and Technology Students - Select ARH 2051 (History of Western Art II) 3 hrs
- C. Mathematical Foundations
- Select MGF 1106 Finite Mathematics *or* MGF 1107 (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
- TPP 3310C* Directing I 3 hrs
- TPP 2110C Acting I - Introduction 3 hrs
- 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 3 hours of THE, TPA, or TPP courses. See Specialization

*See Transfer Notes for possible substitutes.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements (9 hrs)

- 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

4A. Specialization: select one area (66 hrs)

- Acting Specialization
- TPA 2201 Technical Theatre Production CPP
- TPA 2201L Technical Theatre Production LAB CPP
- TPP 2170C Acting II - The Actor Prepares CPP
- TPA 2248C Makeup Techniques 2 hrs
- DAA 2200C Ballet I 2 hrs
- TPP 2710C Voice Production I 2 hrs

- 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 4531C Period Movement 2 hrs
- TPP 4940L Theatre Internship 6 hrs
- TPP4268 Acting VII for TV/Film 3 hrs
- TPP 4221 Auditioning 3 hrs
- TPP 4223C Theatre Careers for Performance 3 hrs
- DAA 2570C Jazz Dance I *or* 2 hrs
- DAA 2100C Modern Dance I
- TPA 4293L - *or* - THE 4093L - *or* - TPP 4193L 1 hr
- Restricted electives (see list of courses) 12 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 3 hrs
- TPA 2010C Scenography 3 hrs
- TPA 2220C Stage Electronics 3 hrs
- TPA 2600 Stage Management Basics 3 hrs
- 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
- TPA 3195L Summer Theatre Studio/Tech/Design I 3 hrs
- TPA 3197L Summer Theatre Studio/Tech/Design II 3 hrs
- THE 4284 Costume, Architecture, Decor History I 3 hrs
- THE 4285 Costume, Architecture, Decor History II 3 hrs
- TPP 4940L Theatre Internship 6 hrs
- TPA 4401C 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 3 hrs
- TPA 4293L Theatre Participation - Production II (1 credit course, must be taken twice) 2 hrs
- TPA 2000C Theatre Design Basics 3 hrs
- TPA 2071C Theatre Rendering 3 hrs
- TPA 2010C Scenography 3 hrs
- THE 4284 Costume, Architecture, Decor History I 3 hrs
- THE 4285 Costume, Architecture, 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 2230C Costume Construction 3 hrs
- TPA 4250C CADD for Theatre 2 hrs
- TPA 4251C Advanced CADD for Theatre 2 hrs
- TPP 4940L Theatre Internship 6 hrs
- TPA 4401C Theatre Careers in Production 3 hrs
- Design Electives (see list of courses) 9 hrs
- Restricted electives (see list of courses) 11 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 4061C Scene Design for Theatre II 3 hrs

UCF Degree Programs

TPA 3040C	Costume Design for Theatre I	3 hrs
TPA 3221C	Lighting Design for Theatre I	3 hrs
TPA 3260C	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
TPP 4268C	Acting VII for TV/Film	3 hrs
THE 4284	Costume, Architecture, Decor History I	3 hrs
THE 4285	Costume, Architecture, 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 4311C*	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 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

4C. Design Electives (for Design & Technology Specialization)

Select at least two level one courses and one level two course

TPA 3060C	Scene Design for Theatre I	3 hrs
TPA 3040C	Costume Design for Theatre I	3 hrs
TPA 3221C	Lighting Design for Theatre I	3 hrs
TPA 3260C	Sound Design for Theatre I	3 hrs
TPA 4061C	Scene Design for Theatre II	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

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 Critique of a UCF-affiliated production and pass with a 75% or better score the semester prior to final semester of theatre classes.
- Complete an Exit Survey, Exit Interview and Audit Check the semester prior to final semester of theatre classes.
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards 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. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
- THE 2304: may use THE 2300
- TPA 2210: may use TPA 2210 **or** TPA 2201
- TPA 2201: may use TPA 2200 **or** TPA 2210
- TPP 3310C: may use TPP 2300

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oetas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

THEATRE - MUSICAL THEATRE TRACK (B.F.A.)

College of Arts and Humanities

Department of Theatre, UTC 180, 407-823-2862

<http://www.theatre.cah.ucf.edu>

Contact: Earl Weaver, 407-823-2862, 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 Undergraduate Coordinator.
- 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 audi-

tion by contacting the Area Coordinator, or they may complete the application at their audition.

- The Musical Theatre plan of study requires a fall start for proper course sequencing. Students are not accepted to begin in the Spring or Summer semesters.

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 or toward total theatre credits. Earning a grade less than "C" (2.0) in any theatre course will cause the student to be placed on departmental probation for one semester which causes him/her to be ineligible for casting or other department production positions. If grades improve probation is lifted. If grades do not improve the student may be released from the program.
- 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. Students who do not consult with their department advisor will be placed on departmental probation which causes him/her to be ineligible for casting or other production positions. Repeated failure to consult with a department advisor may lead to release from the program.
- 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 four 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 in the term in which they are participating. 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. Students may also use additional participation credits as electives.
- Students must follow the most recent department student handbook.
- The department will accept one credit of Theatre Participation coursework for students transferring into the program. Any additional transfer participation credits will count toward electives.
- 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
 B. Cultural and Historical Foundations
 Select one course from 1.B.1 list
 Select THE 2020
 Select one course from 1.B.1 or 1.B.2 list

9 hrs

3 hrs

3 hrs

3 hrs

- C. Mathematical Foundations
 Prefer MGF 1106 or MGF 1107 (may substitute a higher level math)
 Prefer STA 1060C
 D. Social Foundations
 E. Science Foundations

3 hrs

3 hrs

6 hrs

6 hrs

2. Common Program Prerequisites

(18 hrs)

- THE 2020* Survey of Theatre for majors
 THE 2304* Script Analysis
 THE 2090L Theatre Participation - Management I
 TPA 2290L Theatre Participation - Production I
 TPP 2190L Theatre Participation - Performance I
 TPA 2201* Technical Theatre Production
 TPA 2201L Technical Theatre Production Lab
 TPP 3310C* Directing I
 TPP 2110C Acting I - Introduction
 TPP 2170C Acting II - The Actor Prepares

GEF

3 hrs

1 hr

1 hr

1 hr

2 hrs

1 hr

3 hrs

3 hrs

3 hrs

*See Transfer Notes for possible substitutes.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Specialization: Lower Division

(20 hrs)

- MUT 1121 Music Theory and Musicianship I
 MUT 1122 Music Theory and Musicianship II
 DAA 2200C Ballet I
 DAA 2201C Ballet II
 DAA 2570C Jazz Dance I
 DAA 2571C Jazz Dance II
 DAA 2520C Tap Dance I
 TPA 2248C Make-up Techniques

4 hrs

4 hrs

2 hrs

2 hrs

2 hrs

2 hrs

2 hrs

2 hrs

4. Specialization: Upper Division

(51 hrs)

- TPP 3172C Acting III - Building the Character
 TPP 4140C Acting IV - Creating the Role
 TPP 3250 Musical Theatre Acting Perf I
 TPP 3252 Musical Theatre Acting Perf II
 TPP 4253C Musical Theatre Acting Perf III
 THE 4244 Musical Theatre History I
 THE 4245 Musical Theatre History II
 TPP 4223C Theatre Careers for Performance
 THE 3311 Theatre History and Dram. Lit I
 THE 3312 Theatre History and Dram. Lit II
 TPA 4293L - or - THE 4093L - or - TPP 4193L
 TPP 3257C Musical Theatre Voice I
 TPP 3258C Musical Theatre Voice II
 TPP 4259C Musical Theatre Voice III
 TPP 4923C Musical Theatre Voice IV
 TPP 4270C Musical Theatre Voice V
 TPP 4271C Musical Theatre Voice VI
 TPP 4746C Musical Theatre Voice VII
 TPP 4940L Theatre Internship

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

1 hr

2 hrs

2 hrs

2 hrs

2 hrs

2 hrs

2 hrs

6 hrs

4A. Movement Electives

(2 hrs)

- TPP 4531C Period Movement
 or
 TPP 3512C Stage Combat

2 hrs

Any DAA or DAN courses not already required and with departmental approval

4B. Restricted Electives

(2 hrs)

Chosen from the following

- DAN 3134 Dance History I
 DAA 3612 Dance Improvisation/Composition I
 DAA 2100C Modern Dance I
 DAA 3684 Dance Performance
 DAA 2521C Tap Dance II
 DAA 3524C Tap Dance III
 DAA 3208C Ballet III
 DAA 2101C Modern Dance II
 DAA 3108C Modern Dance III
 DAA 2393C World Dance
 DAA 3645 Choreography Practicum
 DAA 3684 Dance Performance
 TPP 3730C Voice Production IV
 TPP 4142C Acting V - Verse
 TPP 4265C Acting VI - Acting for TV/Film
 TPP 4268C Acting VII for TV/Film
 THE 3230 Cultural Diversity in Theatre
 THE 5307* Contemporary Theatre
 TPA 3195L Summer Theatre Studio/Tech/Design I
 TPA 3197L Summer Theatre Studio/Tech/Design II
 TPP 3197L Summer Theatre/Performance
 TPP 3952L Summer Studio Performance
 TPP 4143C Acting Styles
 TPA 2600* Stage Management Basics
 TPA 4400 Theatre Management
 THE 4284 Costume, Architecture, Decor History I

3 hrs

3 hrs

2 hrs

1 hr

2 hrs

2 hrs

2 hrs

2 hrs

2 hrs

2 hrs

2 hrs

1 hr

2 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

3 hrs

UCF Degree Programs

THE 4285	Costume, Architecture, 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 4311C*	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
	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 Critique of a UCF-affiliated production and pass with a 75% or better score the semester prior to final semester of theatre classes
- Complete an Exit Survey, Exit Interview, and Audit Check the semester prior to final semester of theatre classes
- 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 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. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
- THE 2304: may use THE 2300
- THE 2304: may use THE 2300
- TPA 2201: may use TPA 2200 or TPA 2210
- TPP 3310C: may use TPP 2300

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

THEATRE STUDIES (B.A.)

College of Arts and Humanities

Department of Theatre, UTC 180, 407-823-2862

<http://www.theatre.cah.ucf.edu>

Contact: John Shafer, 407-823-2862, 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 visit the audition site online at <http://www.theatre.ucf.edu>.
- 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 "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 or toward total theatre credits. Earning a grade less than "C" (2.0) in any theatre course will cause the student to be placed on departmental probation for one semester which causes him/her to be ineligible for casting or other department production positions. If grades improve probation is lifted.
- Co-op credit cannot be used in this major
- Students must consult with a departmental advisor each semester before registering. Students who do not consult with their department advisor will be placed on departmental probation which causes him/her to be ineligible for casting or other production positions.
- 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 Participation credit must be as part of a run crew. One Participation credit must be as part of a Front of House crew. The third required Participation credit can be in either performance, shop assignments, run crews or Front of House.
- All Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course in the term in which they are participating. 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. Students may also use additional participation credits as electives.
- Students must follow the most recent department student handbook.
- The department will accept one credit of Theatre Participation coursework for students transferring into the program. Any additional transfer participation credits will count toward electives.
- 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

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
 - Select one course from 1.B.1 list 3 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 or MGF 1107 (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		(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
TPP 3310C*	Directing I	3 hrs
TPP 2700C	Stage Voice/Speech	3 hrs
TPP 2101*	Fundamentals of Acting	3 hrs

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core requirements		(9 hrs)
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

4. Restricted Electives	(19 hrs)
Select 19 hours from the following	

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
THE 4284	Costume, Architecture, Decor History I	3 hrs
THE 4285	Costume, Architecture, 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
Honors in the Major Directed Readings and Thesis*		3-6 hrs

*Other THE, TPA, or TPP courses as approved by the department requires departmental approval in advance

- 5. Departmental Exit Requirements**
- Earn a grade of "C" (2.0) or better in each Theatre course
 - Write an Exit Critique of a UCF-affiliated production and pass with a 75% or better score the semester prior to final semester of theatre classes.
 - Complete an Exit Survey, and Exit Interview/Audit Check the semester prior to final semester of theatre classes
 - 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)
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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. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
- THE 2304 (Script Analysis): may use THE 2300 **or** THE 3305
- TPA 2201: may use TPA 2200 **or** TPA 2210
- TPP 3310C: may use TPP 2300
- TPP 2101: may use any introductory acting course

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oetas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$90 per term
- Part-time Student \$45 per term

WOMEN'S STUDIES

See Interdisciplinary Studies - Women's Studies Track

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 online "Intent to Graduate Form." However, 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 Sign Language and Deaf Studies
American Studies
Anthropology
Anthropology in Multicultural Studies
Art History
Art - Studio
Asian Studies
Astronomy
Bioengineering
Biology
Business
Chemistry
Coaching
Cognitive Sciences
Communication Sciences and Disorders
Community Arts - PAVE
Computer Science
Criminal Justice
Dance
Digital Media
Early Childhood Education
Economics
Education
Emergency Management and Homeland Security
Energy and Sustainability
Engineering Leadership
English - Creative Writing
English - Linguistics
English - Literature
English - Technical Communication
English - Writing
English Language Arts Education
Entrepreneurship
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 Informatics Technology
International and Global Studies
International Business
International Engineering
Interpersonal/Organizational Communication
Italian
Judaic Studies
Latin American Area Studies
Leadership Studies
Legal Studies
Magazine Journalism
Management Information Systems
Marketing
Mass Communication

Mathematics
Mathematics Education
Medieval and Renaissance Studies
Middle Eastern Studies
Military Science
Molecular Biology and Microbiology
Music
Nonprofit Management/American Humanics National Certification Program
North American Indian Studies
Operations Management/Enterprise Systems
Philosophy
Philosophy, Religion and Popular Culture
Physics
Political Science
Political Science/Prelaw
Psychology
Public Administration
Real Estate
Recreation
Religious Studies
Science Education
Secure Computing and Networks
Social Science Education
Social Sciences - Interdisciplinary
Sociology
Spanish
Sport Business Management
Statistics
Technical Education and Industry Training
Technological Entrepreneurship
Theatre
Urban and Regional Planning
Women's Studies
World Comparative Studies

Military Science 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 Certificate
Translation and Interpretation Certificate
Victim Advocacy Certificate
Women's Studies Certificate

Additional UCF Programs

Study Abroad Programs:

Argentina
Australia
Austria
Brazil
Costa Rica
Croatia
Czech Republic
England
France
Germany
Honduras
Ireland
Italy
Japan
Jordan
Poland
Russia
Scotland
Spain
Sweden
Switzerland
The Netherlands

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
Diplomacy Certificate
Educational Studies Certificate
Energy Technology 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

ACCOUNTING: MINOR

(for Business and Non-Business Majors)

College of Business Administration

School of Accounting, BA 437, (407) 823-2871

Not available to Accounting Majors

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	3 hrs

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 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 Rm 103

Contact: Col. Michael J. Chandler, 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 411

<http://www.aas.cah.ucf.edu/>

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

AFA 3102	Introductory Perspectives on African American Studies	(12 hrs)
AFA 2300	African American Music	
AFA 3955	Study Abroad in the Caribbean	
AFA 4105	Documenting African American Heritage and Life	
AFH 3100	African History to 1870	
AFH 3200	African History Since 1870	
AFH 5806	The Historiography of Slavery in Africa	
AMH 3403	History of the South Since 1865	
AMH 3572	Black American History II	
AML 3614	Topics in African-American Literature	
AML 3615	Harlem, Haiti, & Havana	
ANT 3316	Black and Seminole Relations	
ANT 3319	Anthropology of Diaspora	
ANT 4340	Caribbean Cultures	
ARH 3520	African Art	
INR 3253	International Politics of Africa	
FIL 3831	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, HPA 204

E-mail: socialwk@mail.ucf.edu

BSW Coordinator: HPA 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 as well as non-degree seeking students. This minor prepares students for careers in applied gerontology, research, public service or for graduate training. Courses focus on the physiological, psychological, sociological, environmental, cultural, legal-ethical and public policy issues affecting older adults. Students majoring in health professions, biomedical sciences, criminal justice and legal studies, hospitality management, psychology, social work, nursing, sociology, business, exercise science, physical education, communication sciences and disorders or education find study of the aging process especially helpful. The minor may be completed as a fully web-based program. A required internship, along with course options that include service-learning activities, complements the web-based course of study.

Credit Hour Requirements 18 hrs

Minors

Required Courses (3 hrs)
GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs

Required Internship: 120 hours

Select one:

SOW 4510 <i>or</i>	Field Education (for full-time students) <i>or</i>	9 hrs
SOW 4941	Field Education (for part-time students over two semesters)	
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.

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 4732	Minority Aging	3 hrs

*Open to undergraduates with senior standing

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 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>

Undergraduate Program Director: 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

ASL 2510	Issues in Deafness	3 hrs
ASL 2140	Introduction to American Sign Language	4 hrs
ASL 2150	Intermediate American Sign Language	4 hrs
ASL 4161C	American Sign Language III	4 hrs
ASL 4201	American Sign Language IV	4 hrs
SPA 4634	Educational Implications of Deafness	3 hrs

Other Requirements

- A minimum grade of "C-" (1.75) is required in each course.
- Students must earn an overall minimum GPA of 2.0 in courses used to complete the minor.
- At least 12 hours used in the minor must be earned at UCF within 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.cah.ucf.edu>

Contact: Lyman Brodie, CAH 190, 407-823-2292, E-mail: lbrodie@mail.ucf.edu

Credit Hour Requirements

Required Courses

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

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

ANT 3106	Archaeology and Popular Culture
ANT 3115	Archaeological Method and Theory
ANT 3142	Old World Prehistory
ANT 3145	Archaeology of Complex Societies
ANT 3158	Florida Archaeology
ANT 3160	Pre-Contact Americas
ANT 3161	Archaeology of Mexico
ANT 3163	Mesoamerican Archaeology
ANT 3164	Ancient Incas
ANT 3165	Archaeology of South America
ANT 3168	Maya Archaeology (<i>or</i> ANG 6168)
ANT 3173	Archaeology of Sex
ANT 3177	Archaeology of Caribbean Piracy
ANT 3358	Life and Death in Ancient Egypt
ANT 4101	Archaeological Sciences (<i>or</i> ANG 5100)
ANT 4144	Prehistory of North America
ANT 4153	North American Archaeology

ANT 4180C	Seminar in Laboratory Analysis (or three 1 hr labs)
ANT 4184	Mortuary Archaeology (or ANG 5741)
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 3330	Cultural Ecology of Amazonia
ANT 3344	Puerto Rican Culture
ANT 3362	Peoples of Southeast Asia
ANT 3450	Living in the USA: Anthropological Perspectives
ANT 3541	Biobehavioral Anthropology
ANT 3550	Primateology
ANT 3949	Cooperative Education in Anthropology
ANT 4184	Mortuary Archaeology (or ANG 5741)
ANT 4462	Medical Anthropology
ANT 4467	Nutritional Anthropology (or ANG 5467)
ANT 4516	Human Biological Diversity
ANT 4521C	Forensic Anthropology
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

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.

Credit Hour Requirements

18 hrs

Required Course

(3 hrs)

Select one of the following:

ANT 2000	General Anthropology
ANT 2410	Cultural Anthropology

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/>

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

27 hours

Required Courses

(15 hrs)

ARH 2050	The History of Art I	3 hrs
ARH 2051	The History of Art II	3 hrs
ARH 4310	Italian Renaissance Art	3 hrs
ARH 4430	19th Century Art	3 hrs
ARH 4450	20th Century Art	3 hrs

Non-western Course Requirement

(3 hrs)

Select from the following:

ARH 4545	Art of India
ARH 3520	African Art
ARH 4655	Meso American Art

Minors

Restricted Elective:	(3 hrs)
ARH 4350 Baroque Art	
ARH 4200 Medieval Art	
ARH 4892 Women in Art	
ARH 4800 Theory and Criticism of the Visual Arts	

6 hours of electives	(6 hrs)
Two additional ARH 3XXX-4XXX courses	

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/>

Contact: J. Chavda, 407-823-2676

Credit Hour Requirements	24 hrs
Required Courses	(18 hrs)

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

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.cah.ucf.edu/>

Contact: P. Giordano, 407-823-2472

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	21 hours
Required Course	(3 hrs)

HUM 3401	Asian Humanities
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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

Not open to Physics majors with an Astronomy specialization

Credit Hour Requirements	20 hrs
Required Course	(18 hrs)

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

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 and	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.

BIOENGINEERING: Minor

College of Engineering and Computer Science

CECS Academic Affairs Office, ENGR 107

Contact: Engineering track - Alain Kassab, 407-823-5778,

E-mail: kassab@mail.ucf.edu;

Computer Science track - Charles Hughes, 407-823-2762,

E-mail: ceh@cs.ucf.edu

The Bioengineering minor prepares engineering and computer science students to pursue graduate academic and professional careers serving a wide range of the medical arena in research and development. Candidates completing this minor will also satisfy course admissions requirements for the UCF Medical School and other medical schools in the US. Engineering and computer science students interested in pursuing an MD degree at UCF or elsewhere are strongly encouraged to seek further advisement from the Pre-Health Professions Advisement office housed in the College of Medicine Burnett School of Biomedical Sciences. Contact Dr. Genaro Lopez; HPA I 124; 407-823-2670; E-mail: galopez@mail.ucf.edu. **The minor constitutes up to: (a) for the engineering track 24 hours of coursework over the requirements for a bachelor of science degree in an engineering discipline at UCF, and (b) a minimum 19 hours of coursework over the requirements for a bachelors of science degree in computer science at UCF.**

Admission Requirements: Entrance into the minor is required upon admission to the University and requires a minimum high school un-weighted GPA 3.7, and ACT 30 or SAT 1300. Well qualified students in the College of Engineering and Computer Science of at least junior standing can also be considered for admission into the minor. In order to remain in the program students must maintain a UCF Undergraduate GPA 3.50. Candidates should contact the CECS Academic Affairs Office; bioengineeringminor@mail.ucf.edu, for application into the minor. Applications will be reviewed and decisions rendered by an admissions committee.

I. Engineering Track

Credit Hour Requirements	41 hrs
Required Courses	(35 hrs)

PHY 2048	Physics for Engineers and Scientists	3 hrs*
PHY 2048 L	Physics Laboratory for Engineers and Scientists	1 hr*
PHY 2049	Physics for Engineers and Scientists II	3 hrs*
PHY 2049 L	Physics Lab for Engineers and Scientists II	1 hr*
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 2046L	Chemistry Fundamentals Laboratory	1 hrs***
CHM 2210	Organic Chemistry I	3 hrs***
CHM 2211L	Organic Laboratory Techniques I	2 hrs
CHM 2211	Organic Chemistry II	3 hrs
CHM 3212L	Organic Laboratory Techniques II	2 hrs
EGN 4941	Externship	1 hr

Recommended Courses

(6 hrs)

Engineering specific list (choose one from the following)

EMA 5584	Biomaterials	3 hrs*
EML 5760	Biofluid Mechanics	3 hrs*
EEE 5272	Biomedical Sensors	3 hrs*
EES 4111C	Biological Process Control	3 hrs*
EIN 5248C	Ergonomics	3 hrs*

General science list (choose one from the following)

CAP 5512	Evolutionary Computation	3 hrs
BCH 4053	Biochemistry I	3 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
BSC 5418	Tissue Engineering	3 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3522	Molecular Biology I	3 hrs
PCB 3703C	Human Physiology	4 hrs
ZOO 3733C	Human Anatomy	4 hrs
ZOO 3744	Neurobiology	3 hrs
PCB 3063	Genetics	3 hrs

* These courses are included in the degree requirements for the Bachelors of Science degree in Engineering.

** In addition to the identified courses above, this course is included in the degree requirements for the Bachelors of Science in Civil Engineering.

*** In addition to the identified courses above, these courses are included in the degree requirements for the Bachelors of Science in Environmental Engineering

II Computer Science Track

Credit Hour Requirements

41 hrs

Required Courses

(35 hrs)

PHY 2048	Physics for Engineers and Scientists	3 hrs*
PHY 2048 L	Physics Laboratory for Engineers and Scientists	1 hrs*
PHY 2049	Physics for Engineers and Scientists II	3 hrs*
PHY 2049 L	Physics Lab for Engineers and Scientists II	1 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 2046L	Chemistry Fundamentals Laboratory	1 hrs
CHM 2210	Organic Chemistry I	3 hrs
CHM 2211L	Organic Laboratory Techniques I	2 hrs
CHM 2211	Organic Chemistry II	3 hrs
CHM 3212L	Organic Laboratory Techniques II	2 hrs
EGN 4941	Externship	1 hr

Recommended Courses

(6 hrs)

Computer science specific list (choose one from the following)

CAP 5512	Evolutionary Computation	3 hrs*
COT 6417	Biological Sequence & Structure Analysis	3 hrs*

General science list (choose one from the following)

CAP 5512	Evolutionary Computation	3 hrs*
BCH 4053	Biochemistry I	3 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
BSC 5418	Tissue Engineering	3 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3522	Molecular Biology I	3 hrs
PCB 3703C	Human Physiology	4 hrs
ZOO 3733C	Human Anatomy	4 hrs
ZOO 3744	Neurobiology	3 hrs
PCB 3063	Genetics	3 hrs

*These courses are included in the degree requirements for the bachelors of science degree in computer science

Other Requirements

- Open only to engineering and computer science majors.
- A grade of "B" (3.0) or better is required in each course used to satisfy the minor.
- The Bachelors of Science must be completed in order for the minor to be awarded.

BIOLOGY: Minor

College of Sciences

Department of Biology, BL 301

<http://www.cos.ucf.edu/biology>

E-mail: biology@ucf.edu

Contact: F. Logiudice, 407-823-2141

Credit Hour Requirements

31 hrs

Required Courses

(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	Evolutionary Biology	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

Not available to Business majors

Contact: Undergraduate Student Services, BA2 101, 407-823-2184

Required Accounting Courses

(6 hrs)

ACG 2021	Principles of Financial Accounting
and	
ACG 2071	Principles of Managerial Accounting

Required Courses

(18 hrs)

ECO 2013	Macroeconomics
ECO 2023	Microeconomics
FIN 3403C	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

28 hrs

Required Courses

(20 hrs)

CHM 2045C*	Chemistry Fundamentals I	4 hrs
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2046L	Chemistry Fundamentals Laboratory	1 hr

Minors

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 & Lab	4 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 Child, Family and Community Sciences ED 209

Program Coordinator: Debby Mitchell, ED 320H, 407-823-6598,
E-mail: mitchell@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, 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

(15 hrs)

*PET 2622C	Human Injuries	3 hrs
PET3765	Coaching Theory	3 hrs
PET3493	Sports and 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:

(3 hrs)

PEO2624	Coaching Football <i>or</i>
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, PSY 220

<http://www.cah.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 3531 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)
- PSY 3703 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

Undergraduate Program Director: 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 grade of "C-" (1.75) is required in all courses used to satisfy the minor.
- Students must earn an overall minimum of 2.0 GPA in the courses used to complete the minor.
- At least 19 hours used in the minor must be earned at UCF within the Department of Communication Sciences and Disorders.
- 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: Janet Kilbride, 407-823-2676

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		19 hrs (19 hrs)
COP 3223	Intro to Programming with C	3 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	
EEL 3801	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
HPA 311

E-mail: cjadvice@mail.ucf.edu

Contact: Mary Ann Eastep, 407-823-3598

Credit Hour Requirements

Required Courses		18 hrs (6 hrs)
CCJ 3024	Criminal Justice System	3 hrs
CCJ 3014	Crime in America	3 hrs

Restricted Electives

Two of the following:		(12 hrs)
CJL 3510	Prosecution and Adjudication	3 hrs
CJC 3010	Corrections and Penology	3 hrs
CJE 4014	Police and Society	3 hrs
Six semester hours of Criminal Justice Courses	(Selected with the aid of an advisor)	6 hrs

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

Entrance Requirement		18 hrs
A successful audition		
Required Courses		(11 hrs)
DAN 3134	Dance History I	3 hrs
DAA 3612	Dance Improvisation/Composition I	3 hrs
DAA 2100C	Modern Dance I	2 hrs
DAA 2200C	Ballet I	2 hrs
DAA 3684	Dance Performance	1 hr
Electives		(7 hrs)
DAA 2570C	Jazz Dance I	2 hrs
DAA 2571C	Jazz Dance II	2 hrs
DAA 2520C	Tap Dance I	2 hrs
DAA 2521C	Tap Dance II	2 hrs
DAA 3524C	Tap Dance III	2 hrs

Minors

DAA 2201C	Ballet II	2 hrs
DAA 3208C	Ballet III	2 hrs
DAA 2101C	Modern Dance II	2 hrs
DAA 3108C	Modern Dance III	2 hrs
DAA 2393C	World Dance	2 hrs
DAA 3645	Choreography Practicum	2 hrs
DAA 3684	Dance Performance	1 hr
TPA 2290L	Theatre Participation	1 hr

Other Requirements

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- Student must consult dance advisor every semester. Students who do not consult with their department advisor will be placed on departmental probation for one semester which causes him/her to be ineligible for casting or other production positions. Repeated failure to consult with a department advisor may lead to release from the program.
- 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 three different dance styles must be completed in the minor.

DIGITAL MEDIA: Minor

College of Arts and Humanities

Digital Media, 12461 Research Parkway, 500 OTC

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

Interim Chair of Department of Digital Media: Dr. José Maunez-Caudra, 407-823-6100

Credit Hour Requirements

18 hrs

Required Courses

12 hrs

DIG 2000	Introduction to Digital Media
DIG 3138C	Digital Imagery
COP 2500C	Concepts in Computer Science
DIG 3716C	Internet Interaction

Restricted Elective Courses

6 hrs

Select two courses:

DIG 3286C	Assembling Digital Media	3 hrs
DIG 3253C	Digital Media Audio	3 hrs
DIG 2821	Creative Digital Problem Solving	3 hrs
DIG 2485	Visual Language of the Moving Image	3 hrs
DIG 3480C	Computers as a Medium	3 hrs
DIG 3525	Digital Media Production I	3 hrs
DIG 3563	Information Management and Authorship	3 hrs
DIG 4503	Rapid Application Web Development	3 hrs
DIG 4324C	Modeling for Real-time Systems II	3 hrs
DIG 4455	Interactive Performance II	3 hrs
DIG 4713	Game Design	3 hrs
DIG 4715C	Game Production	3 hrs
DIG 4780C	Modeling for Real-time Systems I	3 hrs
DIG 4630C	Media for E-Commerce II	3 hrs
DIG 4530C	Media for E-Commerce I	3 hrs

Or - any 3000 or 4000 level courses approved by the Department of Digital Media.

Other Requirements:

- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor, except in DIG 2000 where a "B" (3.0) or better is required.
- 12 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://education.ucf.edu/ece/>

Program Coordinator: Judy Levin, ED 122L, 407-823-4615,
E-mail: jlevin@mail.ucf.edu

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

(18 hrs)

EEC 4661	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 3700	Social and Emotional Development of Young Children	3 hrs
EEX 3450	Young Children with Special Needs	3 hrs

Restricted Electives (select one)

(3 hrs)

EEX 4751	Parent Involvement	3 hrs
EEC 4303	Planning Creative Activities in Early Childhood	3 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

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 Business and Non-Business Majors)

College of Business Administration

Department of Economics, BA2 305, 407-823-3266

<http://www.bus.ucf.edu/economics>

Not available to Economics Majors

Advisors: Michael Caputo, BA2 302Q, 407-823-1405, E-mail: mcaputo@bus.ucf.edu; D. Scrogin, BA2 302U, 407-823-4129; N. Underwood, BA2 302N, 407-823-1403

Credit Hour Requirements

18 hrs

Required Courses

(9 hrs)

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 ECO 3401.

Note: ECO 3401 (or equivalents) 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.

EDUCATION: Minor

Open to non-education majors

College of Education

Department of Educational Studies, ED 206E

<http://education.ucf.edu/>

Program Coordinator: W. Scott Wise, ED 220B,
407-823-1502, E-mail: wwise@mail.ucf.edu

The Education minor is intended to provide for university students outside the College of Education a limited but substantial experience in the fields of professional education. Students who successfully complete this minor can expect to increase their marketability in careers that include educational components such as instructing, training, and lecturing. This minor is designed to promote student success in instructional settings, particularly in the high school setting, but does not directly qualify students for teacher certification or admission into the College of Education. This minor is available for students in the 2007 catalog year and beyond.

Credit Hour Requirements

Core Courses

EDF 4603	Analysis & Application of Ethical, Legal, and Safety Issues in Schools	3 hrs
EDF 4467	Learning Theory & Assessment	3 hrs
EDG 4410	Teaching Strategies & Classroom Management	3 hrs
RED 4043	Content Reading in Kindergarten through Grade Twelve	3 hrs
TSL 4080	Theory & Practice of Teaching ESOL Students in Schools	3 hrs

Restricted Electives (select one)

MAE 4634	Programs in Teaching Mathematics	3 hrs
SCE 4361	Programs in Teaching Science	3 hrs
LAE 4464	Introduction to Adolescent Literature	3 hrs
LAE 4342	Teaching Language/Composition	3 hrs
SSE 4936	Programs in Teaching Social Science	3 hrs

Other Requirements:

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- A minimum GPA of 2.5 of all Gordon Rule classes 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 teacher certification nor does it constitute admission to the College of Education.
- Students may enroll in the Education Minor or a Minor in a Content Area, but not both.

EMERGENCY MANAGEMENT AND

HOMELAND SECURITY: Minor

College of Health and Public Affairs

Department of Public Administration, HPA2 238

Contact: Naim Kapucu, 407-823-2604, E-mail: nkapucu@mail.ucf.edu

The minor in emergency management and homeland security provides students with an opportunity to comprehensively study the disaster management cycles, including emergency preparedness, prevention/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 private and nonprofit organizations. Some of these may include the Health and Human Services Agency (HHS), the Environmental Protection Agency (EPA), the Occupational Health and Safety Administration (OSHA), the Federal Emergency Management Agency (FEMA), the Department of Homeland Security (DHS), American Red Cross and state and local emergency management and 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)

DSC 4012	Conflict & Terrorism	3 hrs
DSC 4013	Homeland Security and Criminal Justice	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.

ENERGY AND SUSTAINABILITY:

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

Participants in the proposed minor will acquire knowledge in technical, economic and policy issues related to sustainable energy generation, conservation, management and utilization. Those completing the minor will be able to improve their understanding, awareness and job skills to have additional opportunities and advantages to pursue a career in the emerging energy sector.

Admissions Criteria:

A minimum GPA of 2.25 is required for acceptance into this minor degree program.

Credit Hour Requirements

Required Courses

IDS 3150	Foundations of Environmental Studies	3 hrs
EGN 4824	Energy and Society	3 hrs
IDS 4XXX	Advanced Topics in Energy and Sustainability	3 hrs
Select one course from the following two courses:		
GEB 4152	Technological Entrepreneurship	3 hrs
IDS 4949	Internship	3 hrs

Internship proposals must be approved by the Energy Sustainability Minor program coordinator in coordination with faculty from the Office of Experiential Learning.

Restricted Elective Courses

Select any two elective courses from the following courses:

Renewable Energy

EEL 4216	Fundamentals of Electric Power Systems	3 hrs
EGN 4730	Renewable Energy Systems	3 hrs
EGN 4300C	Hydrogen Production and Handling	3 hrs
EGN 4731C	Fuel Cell Technologies	3 hrs

Mechanical Energy Systems Design

ETM 4220	Applied Energy Systems	4 hrs
EML 4454	Turbines for Sustainable Power	3 hrs
EML 4600	HVAC Systems Engineering	3 hrs
EML 4602	Applied HVAC Engineering	3 hrs
EML 4411	Mechanical Power Systems	3 hrs

Water, Environment and Waste Management

ENV 3001	Introduction to Environmental Engineering	3 hrs
ENV 4120	Air Pollution Design	3 hrs
ENV 4341	Solid and Hazardous Waste Management	4 hrs
ENV 4561	Environmental Engineering Process Design	4 hrs

Business and Public Policy

REE 3614	Environmental Issues in Real Estate	3 hrs
ECP 3302	Economics and the Environment	3 hrs
ECP 4302	Environment and Natural Resource Economics	3 hrs

Social and Ethical Dimensions

INR 4350	Global Environmental Politics	3 hrs
INR 4351	International Environmental Law	3 hrs
PAD 4351	Issues in Environmental Program Management	3 hrs
PHI 3640	Environmental Ethics	3 hrs
PLA 4554	Environmental Law	3 hrs
PUP 3203	Environmental Politics	3 hrs
PUP 4209	Urban Environmental Policy	3 hrs
SYD 4510	Environmental Sociology	3 hrs

Minors

Other Requirements

- A minimum grade of "C" (2.0) or better in all courses in the minor.
- A cumulative GPA of 2.5 is required to successfully complete the minor.

ENGINEERING LEADERSHIP: Minor

College of Engineering and Computer Science
Department of Industrial Engineering & Management Systems, ENG2 312, 407-823-2204
<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 3.0 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 405
<http://english.cah.ucf.edu>

E-mail: english@ucf.edu

Contact: D. Wallace, 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
CRW 3610	Writing Scripts 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)
CRW 4616	Advanced Script Writing Workshop (PR: CRW 3610)

Restricted Upper Division Electives

(12 hrs)

CRW 3311	Structure of Verse
CRW 4114	History of Prose Style
	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 405
<http://english.cah.ucf.edu>
E-mail: english@ucf.edu

Contact: D. Wallace, 407-823-2212

Credit Hour Requirements

18 hrs

Required Courses

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
PHI 4221	Philosophy of Language
SPA 3112	Basic Phonetics
	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 405
<http://english.cah.ucf.edu>
E-mail: english@ucf.edu

Contact: D. Wallace, 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 COMMUNICATION: Minor

College of Arts and Humanities
Department of English, CNH 405
<http://english.cah.ucf.edu>
E-mail: english@ucf.edu

Contact: D. Wallace, 407-823-1159

Credit Hour Requirements

18 hrs

Choose 18 hours from the following Required courses

ENC 3211	Theory & Practice of Tech Writing	3 hrs
	or	
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 4280	Technical Writing Style	3 hrs
ENC 4293	Documentation and the Collaborative Process	3 hrs
ENC 4294	Documentation and Client-Based Collaboration	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 405

<http://english.cah.ucf.edu>

E-mail: english@ucf.edu

Contact: D. Wallace, 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
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
CRW 4616	Advanced Script Writing
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.

ENGLISH LANGUAGE ARTS EDUCATION: Minor (Open to Non-English Language Arts Education Majors)

College of Education

Department of Teaching and Learning Principles
ED 209

<http://education.ucf.edu/englished/>

Program Coordinator: Jeff Kaplan, ED 122B, 407-823-2041;

E-mail: jkaplan@mail.ucf.edu

The English Language Arts Education minor is intended for non-English Language Arts Education majors. It is well suited for students majoring in another secondary content area or as an area for students enrolled in Interdisciplinary Studies. This minor is available for students in the 2008 catalog year and beyond.

Credit Hour Requirements

18 hrs

EDG 4410	Teaching Strategies and Classroom Management	3 hrs
EDF 4467	Learning Theory and Assessment	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students In Schools	3 hrs
RED 4043	Content Reading Kindergarten thru Grade 12	3 hrs
LAE 4360	English Instructional Analysis	3 hrs
LAE 4342	Teaching Language and Composition	3 hrs

Admission Requirements

- Have a minimum 2.5 overall GPA
- Complete the University General Education Program requirements or its equivalent, i.e. an A.A. degree from an approved Florida community college or state university

Other Requirements

- Students should see an advisor prior to registering for classes
- Students must complete 18 sh of courses in English Language Arts as co-requisites
- At least 12 hours in the minor must be earned at UCF

ENTREPRENEURSHIP: Business Minor (Open to Business Students)

College of Business Administration

Management Department, BA 309

Not available to Management Majors

Credit Hour Requirements

18 hrs

Required Courses

(15 hrs)

MAN 3301	Human Resource Management
MAN 4802	Entrepreneurship
MAR 3391	Professional Sales
or MAR 3641	Marketing Intelligence
GEB 4111	New Venture Finance
GEB 4110	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.

ENTREPRENEURSHIP: Minor for Non-Business Majors

College of Business Administration

Department of Management, BA 309

Credit Hour Requirements

20 hrs

Required Introductory Courses

(11 hrs)

MAN 3025	Management of Organizations	4 hrs
MAR 3023	Marketing	4 hrs
GEB 3113	How to Start a Business	
or		
MAN 3301	Human Resource Management	3 hrs

Required Entrepreneurship Courses

(9 hrs)

MAN 4802	Entrepreneurship	3 hrs
GEB 4111	New Venture Finance	3 hrs
GEB 4110	Business Plan Preparation	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.
- 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.
- A maximum of six hours of required or elective coursework can count toward another major or minor degree program.

ENVIRONMENTAL STUDIES: Minor

Office of Undergraduate Studies

Office of Interdisciplinary Studies, CL1 302

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

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.

Minors

Credit Hour Requirements

Note: It is the student's responsibility to ensure that 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

Science & Environmental Electives

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 Evolutionary Biology
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

(9 hrs)

Social & Humanities Electives

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 4554 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

(9 hrs)

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 without prior approval from the Interdisciplinary Studies advisors.

EUROPEAN STUDIES: Minor

College of Sciences

Department of Political Science, PH 302

<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:

CPO 4101 Politics of the European Union
LIT 3082 Continental European Fiction since 1900

(6 hrs)

Restricted Electives:

Literature, Film, and Culture:

ENL 2022 English Literature II
ENL 4101 English Novel
ENL 4240 English Romantic Writers
ENL 4262 19th Century British Prose
ENL 4273 Modern British Literature
FIL 3820 Italian Film
FIL 3822 French Film
FIL 3823 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

(12 hrs)
(3 hrs)

History

EUH 3235 Romanticism and Realism
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 20th Century
EUH 4582 20th 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

(6 hrs)

Political Science or Economics

CPO 3104 Politics of Western Europe
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
INR 4035 International Political Economy

(3 hrs)

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
ARH 4450 20th Century Art
PHI 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 Contact: Linda Alexander, ED 315, 407-823-2598;

E-mail: lalexand@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 appropriate for students who are seeking an enhanced understanding of exceptional education or are considering a career in the field of education or related fields. 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. The minor does not lead to teacher certification nor admission to the College of Education.

Credit Hour Requirements

18 hrs

Required Courses

EEX 2090	Exceptional Populations in Schools & Society	3 hrs
EEX 4066	Curriculum, Theory & Instruct Strategies For Students with Special Needs	3 hrs
EEX 4601	Introduction to Behavior Management	3 hrs
EEX 4763	Tech for Classroom Teachers of Students with Spec Needs	3 hrs

Choose the appropriate Restricted Electives as follows:

Choose either an elementary or secondary focus.

Elementary Restricted Electives

(6 hrs)

EEX 4070	Teaching Exceptional Students	3 hrs
EEX 3241	Methods for Academic Skills for Exceptional Students	3 hrs
EEX 3221	Assessment of Exceptional Students	

Secondary Restricted Electives

EEX 4242	Teaching Exceptional Students in Secondary Settings	3 hrs
EEX 3243	Techniques for Exceptional Adolescents/Adults	3 hrs
EEX 3221	Assessment of Exceptional Students	

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.cah.ucf.edu>

E-mail: film@ucf.edu

Department Chair: S. Schlow, 407-823-2845

Entrance Requirement

- Completion of a Minor Declaration and Minor Application

Credit Hour Requirements

Required Courses

FIL 1007	Foundations of Story or
FIL 1000	Cinema Survey
FIL 2030	History of Motion Pictures
FIL 3006	Art of the Cinema
FIL 2423	Foundations of Production

Restricted Electives (Choose Two)

FIL 3363C	Film Documentary
FIL 3880C	Women in Film
FIL 3051	Avant-Garde Cinema
FIL 3820	Italian Film
FIL 3845	World Cinema Traditions
FIL 3841	French New Wave Cinema
FIL 3824	Italian Neo-Realist Cinema
FIL 3847	Latin American Cinema
FIL 3822	French Film
FIL 3823	German Film
FIL 3831	Black Cinema
FIL 3826	American Cinema
FIL 3871	The American Film Artist
FIL 4647	Film Production Management

Other Requirements

- 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

College of Business Administration

Department of Finance, BA 409

<http://www.bus.ucf.edu/finance>

Not available to Finance Majors

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

FIN 2100	Personal Finance and Investments	3 hrs
FIN 3403C	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 3461	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 six hours of the above listed required or elective courses can count toward another major or minor degree program.

Minors

FITNESS TRAINING: Minor

College of Education

Department of Child, Family and Community Sciences, ED 209

Program Coordinator: Anna Valdes, ED 320H, 352-536-2141;
E-mail: asarmien@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

PET 4312	Biomechanics	3 hrs
PET 4550	Fitness Assessment	3 hrs
PET 4083	Practical Fitness Training (Take Last - Only offered once a year)	3 hrs
*ZOO 3736C	Exercise Physiology Anatomy (Take First)	4 hrs

Restricted Electives - Choose 2 classes from the following:

PET 3361	Nutrition for Sports and Fitness	3 hrs
PET 3771	Fitness and Conditioning Concepts	3 hrs
PET 3768	Group Exercise Instruction	
PET 4351C	Applied Exercise and Human Physiology	
PET 4215	Motivational Aspects of Athletic Performance	

*If the student has completed a Human Anatomy course with a laboratory requirement at another school, it can be substituted for ZOO3736C.

Note: ZOO 3736C should be taken prior to PET 4312, PET 4550, and PET 4083

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://mll.cah.ucf.edu/>

E-mail: forlang@mail.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://mll.cah.ucf.edu/>

E-mail: forlang@mail.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 Management and Informatics, HPA2 210

Contact: Alice M. Noblin, RHIA, 407-823-2353,
E-mail: 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 3537	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.
- 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, 407-823-5236,
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.
- 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 Management and Informatics, HPA2 210

Contact: Kendall Cortelyou-Ward, PhD, 407-823-2359,
E-mail: hsainfo@mail.ucf.edu

Credit Hour Requirements

18 hrs

Required Courses

(15 hrs)

HSA 3111	U.S. Health Care Systems	3 hrs
HSC 4201	Community Health Services	3 hrs
HSA 4180	Org and Management for Health Agencies I	3 hrs
HSA 4191	Health Care Automation	3 hrs
HSC 4500	Epidemiology	3 hrs

Restricted Elective

HSC 4652	Health Care Law & 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

(Additional prerequisite courses may be required)

(3 hrs)
3 hrs

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.
- 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://www.history.cah.ucf.edu/>
E-mail: history@ucf.edu

Contact: Rosalind J. Beiler, 407-823-2225

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

HFT 1000	Introduction to Hospitality Mgmt
HFT 3540	Guest Services Management

Choose any two courses from the following:

HFT 2401	Hospitality Financial Accounting
HFT 3431	Hospitality Managerial Accounting
HFT 2500	Hospitality Marketing
HFT 2220	Hospitality Human Resource Mgmt
HFT 3444	Hospitality Information Systems
HFT 3603	Legal Environment in Hospitality
HFT 4464	Hospitality Industry Finance
HFT 4286	Hospitality Communications

Choose any two courses from the following:

HFT 3700	Tourism Management
HFT 3263	Restaurant Management
HFT 3273	Principles of Resort Time Sharing
HFT 4755	Theme Park & Attraction Mgmt
HFT 2750	The Event Industry
FSS 2221C	Quantity Food Preparation
HFT 2254	Lodging Operations
HFT 4277	Yacht, Country, and City Club Mgmt

(6 hrs)

(6 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.

HUMANITIES: Minor

College of Arts and Humanities
Department of Philosophy, PSY 220
<http://www.cah.ucf.edu/philosophy>
E-mail: philosophy@ucf.edu

Contact: Ann Maukonen, 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 Interdisciplinary Studies 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

21 hrs

Humanities Foundations

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
CLT 3370	Classical Mythology
CLT 3378	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.
- No more than two courses (i.e. six credit hours) of 3000 or 4000 level courses applied to the Humanities Minor may be simultaneously applied to fulfill another major.

Minors

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
(3-7 hrs)

Required Courses

Select one of the following options:

Option 1 (Not open to Computer Science Minors or Interdisciplinary Studies Majors):

CGS 1060C *or* CGS 2100C 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

Restricted Electives

Select from the following:

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
CNT 3004 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 nine 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

(9 hrs)

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 5669 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 4804C 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/I2Tech/>

Contact: Mark Llewellyn, E-mail: markl@cs.ucf.edu

Credit Hour Requirements

18 hrs

Required Courses

(9 hrs)

CET 3010 Introduction to Information Technology *or* 3 hrs
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 Informatics Concentration

(9 hrs)

CGS 4144 Introduction to Informatics 3 hrs
HIM 3006 Introduction to Health Information Management 3 hrs
HSA 4191 Health Care Automation 3 hrs

Technical Elective

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, PH 302
<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.

- Double major/dual degree policy in Political Science programs and minors
 1. Students who major in any Political Science track, and minor in International and Global Studies, shall not count more than one course toward both programs.
 2. Students who double minor in Political Science and International and Global Studies shall not count more than one course toward both programs.

Credit Hour Requirements

Note: It is the student's responsibility to satisfy course prerequisites.

Core Courses

IDS 4315	Global Perspectives
GEO 3471	World Political Geography

Restricted Political Science Electives (Select one)

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 4074	Immigration Policy
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

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

DSC 4012	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

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 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, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

INTERNATIONAL BUSINESS:

Minor for Business Majors

College of Business Administration

Office of Student Support, BA 240

Faculty Contact: Richard Ajayi, 407-823-5908

Credit Hour Requirements

Required Courses

ECO 3703	International Trade	3 hrs
or ECO 4704	International Macroeconomics	3 hrs
FIN 4604	International Financial Management	3 hrs
MAN 4600	International Management	3 hrs
MAR 4156	International Marketing	3 hrs

Elective

ECO 3703	International Trade	3 hrs
ECO 4704	International Macroeconomics	3 hrs
ECO 4701	Seminar in Global Economic Policy	3 hrs
ECS 4013	Economics of Developing Areas	3 hrs
GEO 3471	World Political Geography	3 hrs
INR 4035	International Political Economy	3 hrs
INR 4224	Contemporary International Politics of Asia	3 hrs
INR 4243	International Politics of Latin America	3 hrs
INR 4401	International Law I	3 hrs
MAR 4724	Strategic Foundations in Global e-Business	3 hrs
	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.

INTERNATIONAL ENGINEERING: Minor

College of Engineering and Computer Science

CECS Academic Affairs Office, ENGR 107

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

Contact: Avelino Gonzalez, 407-823-5027;

E-mail: gonzalez@mail.ucf.edu

The objective of this minor is to provide engineering, computer science and engineering technology students with the opportunity to learn about and experience firsthand the global aspects of engineering, science and technology. This minor is designed for maximum flexibility in programming, given the many different countries, cultures, partner foreign institutions and individual student needs. Through this minor, CECS students gain academic and/or work experience at an approved foreign institution compatible with UCF CECS, while simultaneously becoming familiar with the social as well as professional and technical cultures of their host country. CECS students can spend one or two semesters abroad gaining valuable international experience in their chosen field. This is especially important in today's global economy in which employers look for graduates with international experience in their major area.

Admission Requirement

Admission by interview with the Program Director

Credit Hour Requirements

18-20 hrs

The International minor in Engineering, Computer Science, or Engineering Technology is composed of three parts:

1) Language Skill Acquisition

(6-8 hrs)

It is important that students possess a working level of language skills in the language of the prospective country to be visited in the study abroad experience of item 3 below. Therefore, students must demonstrate proficiency in the language of their chosen country through at least the first year of college study. This can be achieved by completing six to eight hours of language coursework at UCF if such coursework is available, at the foreign institution where they will be going, or by passing an exam prior to the study abroad experience. Language coursework must relate to the country/region in which the student will be studying and must be approved beforehand by program coordinator. This requirement can be waived by the minor coordinator for study abroad in countries in where English is widely spoken.

If the student demonstrates proficiency through exam or if the language requirement is waived, he/she will instead take six hours of alternative international coursework at UCF in lieu of the foreign language credits. This alternative international coursework will consist of:

IDS 3333	World Comparative Studies	3 hrs
GEO 3471	World Political Geography	3 hrs

(Or an equivalent approved by the program coordinator)

2) Cultural Courses

(3 hrs)

It is important to formally expose the students to the culture of the country or region where they plan to have their study abroad experience. This can be done in one of three ways, in decreasing order of preference:

Minors

1) Students will complete three hours of coursework in society/culture international relations, or global economics related to the country/region where the student is having his/her study abroad experience. It is recommended that this course be completed at the foreign institution if available

2) If this is not possible, then the minor coordinator will select EGN 3940 - Practicum as an acceptable alternative. In this alternative, the student will be paired with a CECS faculty member of the same culture of the country or region where the student seeks to go. The faculty member will assign the student a semester-long project that will entail a technical aspect as well as a cultural aspect.

3) If such a mapping cannot be made, then the minor coordinator will select a course to take in its place at UCF that will achieve similar results.

3) Study Abroad Experience (9 hrs)

The study abroad experience represents the most important aspect of this minor. To satisfy this requirement, students have the option to either:

(1) complete nine hours of technical coursework (classroom studies) in residence at a partner institution abroad, or

(2) complete six hours of technical coursework in residence (classroom studies) at a partner institution abroad, plus one semester (three hours) as an engineering or technology intern abroad in a career-related position with a company in the same country or region.

Students must take coursework abroad of equivalent content and level to what they would take at UCF as part of their degree program. With the realization that courses are different in the various overseas institutions, the proposed overseas coursework must be explicitly approved by the student's home department to ensure equivalency. Students must first consult with their home department to determine the core, required and/or elective courses they are eligible to take, and look for equivalences of courses offered at the overseas institution during the time of their expected study abroad experience. They must then proceed to consult with the international minor coordinator before seeking departmental approval. Departmental approval must be obtained before enrolling in the overseas classes.

Other Requirements

- A minimum cumulative GPA of 2.5 is required in the minor/certification.
- Pre-requisites to the minor include completion of a minimum of 45 credit hours prior to the study abroad experience.

INTERPERSONAL/ORGANIZATIONAL COMMUNICATION: Minor

College of Sciences
Nicholson School of Communication
COMM 238, 407-823-2681
<http://communication.cos.ucf.edu>

Contact: R. Morales

Not open to Ad/PR, Interpersonal/Organizational Communication, Journalism, or Radio/TV majors.

Credit Hour Requirements **21 hrs**
Required Courses **(12 hrs)**

COM 3311	Communication Research Methods
COM 3011C	Communication and Human Relations
COM 3120	Organizational Communication
SPC 3301	Interpersonal Communication

Restricted Electives **(9 hrs)**

SPC 3513	Argumentation & Debate
COM 3110	Business & Professional Communication
COM 4014	Gender Issues in Communication
SPC 4331	Nonverbal Communication
SPC 4540	Attitudes and Communication
SPC 4426	Group Dynamics
COM 4461	Intercultural Communication
COM 4462	Conflict Management
COM 3013	Communication and the Family
COM 3406	Communication and Motivation

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://mll.cah.ucf.edu/>

E-mail: forlang@mail.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 415 E-J

<http://www.judaicstudies.cah.ucf.edu/>

E-mail: judaicst@pegasus.cc.ucf.edu

Program Director: Dr. 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 **(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 3481	20th Century Jewish History and Thought
JST 3550	Introduction of Modernism into Judaism
JST 3701	History of the Holocaust

Bible	
JST 3120	Hebrew 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 3312	Identity and Genre
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 3250	Biblical Hebrew
HBR 3410	Conversational Israeli Hebrew

Jewish Civilization

JST 3005 Tenets of Judaism
JST 3121 Classic Texts of Judaism

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 406 E & 406 F, 407-823-1173 or 1174

Program Director: José M. Maunez-Cuadra,

E-mail: jmaunez@mail.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 1120C and SPN 1121C or demonstration of proficiency.

Restricted Electives

(18 hrs)

At least six hours must be from one disciplinary group, and at least three 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 4332 People and Cultures of Latin America
ANT 4340 Caribbean Cultures
ANT 4308 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 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
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

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.

LEADERSHIP STUDIES: Minor

Office of Undergraduate Studies

Office of Interdisciplinary Studies, CL1 302

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

E-mail: is@mail.ucf.edu

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The Leadership Studies (LS) minor is an interdisciplinary academic program that focuses on developing several dimensions of leadership understanding and skills for undergraduate students. The minor builds upon foundational courses with specific aspects of leadership involving communication, collaboration, social relations, politics, and ethics.

Total Credit Hour Requirements

(19+ hrs)

Foundation Requirement

(4 hrs)

LDR 1XXX Foundations of Leadership (2 hrs)
LDR 1XXX Intermediate Foundations of Leadership (2 hrs)
(PR: LDR 1XXX Foundations of Leadership)

Restricted Requirements

(15+ hrs)

Choose one course from each of the five areas.

A. Communication

COM 3011C Communication and Human Relations (3 hrs)
(PR: *or* CR: COM 3311)
COM 3120 Organizational Communication (3 hrs)
(PR: COM 3311)
COM 4461 Intercultural Communication (3 hrs)
(can only be used in Area A or Area C)
COM 4462 Conflict Management (3 hrs)
(PR: COM 3311)
ENC 3250 Professional Writing (3 hrs)
(PR: Grade of C or better required in ENG 1102: junior standing; 12 upper division hours in the student's major)
SPC 3445 Leadership Through Oral Communication (3 hrs)
(PR: COM 3120 and COM 3311 *or* CI)

B. Collaboration

INP 3004 Industrial/Organizational Psychology (3 hrs)
(PR: PSY 2012 *or* CI)
INP 4313 Organizational Psychology (3 hrs)
(PR: INP 3004)
MAN 4240 Organizations: Theory and Behavior (4 hrs)
(PR: Management major, MAN 3025)
MAN 3025 Management of Organizations (4 hrs)
(PR: required for minor)
SPC 4426 Group Dynamics (3 hrs)
(PR: COM 3311)

C. Social Relations and Culture

ANT 3541 Biobehavioral Anthropology (3 hrs)
CLP 3143 Abnormal Psychology (3 hrs)
COM 4461 Intercultural Communication (3 hrs)
(can only be used in Area A or Area C)
EXP 3304 Motivation (3 hrs)
(PR: PSY 2012)
SOP 3004 Social Psychology (3 hrs)
(PR: PSY 2012)
SOP 3723 Cross Cultural Psychology (3 hrs)
(PR: PSY 2012)
SOP 3742 Psychology of Women (3 hrs)
(PR: PSY 2012)
SOP 3784 Psychology of Diversity (3 hrs)
(PR: PSY 2012)

D. Politics

PAD 3003 Public Administration in American Society (3 hrs)
(PR: POS 2041)
PAD 4104 Administration Theory (3 hrs)
PAD 4144 Non-Profit Organizations (3 hrs)
(PR: PAD 3003 *or* CI)
PAF 4754 Interdisciplinary Leadership in Public Affairs (3 hrs)
(PR: ENC 1101 *or* CI)
POS 3413 The American Presidency (3 hrs)
(PR: POS 2041 *or* CI)
POS 4206 Political Psychology (3 hrs)

Minors

PUP 3325	Women and Political Behavior (PR: POS 2041 <i>or</i> CI) – Offered every two years	(3 hrs)
SYO 4300	Political Sociology	(3 hrs)
E. Ethics		
BUL 3130	Legal and Ethical Environment of Business	(4 hrs)
EDF 3601	Professional Ethics in Education	(3 hrs)
PAD 3040	Ethics and Values in Public Administration (PR: Junior standing <i>or</i> CI)	(3 hrs)
PHI 2108	Critical Thinking	(3 hrs)
PHI 3638	Ethical Issues in the 21st Century (PR: PHI 2010 <i>or</i> CI)	(3 hrs)
PHI 3640	Environmental Ethics (PR: Junior Standing)	(3 hrs)

Other Requirements

- Earn a grade of “C” (2.0) or better in each course used to satisfy the minor.
- At least 15 credit 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.
- Students cannot complete both the Leadership Studies minor and the Leadership Studies certificate.

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

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 grade of “C” (2.0) is required in each course 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 or Independent Study credit cannot be used toward the minor.

MAGAZINE JOURNALISM: Minor

College of Sciences

Nicholson School of Communication, COMM 238

<http://communication.cos.ucf.edu/undergraduate/degrees/journalism.php>

E-mail: journalism@ucf.edu

Contact: R. Morales, 407-823-2681

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

Not available to Management Information Systems Majors

Credit Hour Requirements

21 hrs

Prerequisite courses

CGS 2100C Computer Fundamentals for Business *or*
CGS 1060C Intro to Computer Science (or equivalent)
MAC 1105 College Algebra *or*
MGF 1106 Finite Mathematics

Required Courses

12 hrs

ISM 3011C Essentials of 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 six 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

Not available to Marketing Majors

Credit Hour Requirements

19 hrs

Required Courses

(4 hrs)

MAR 3023 Marketing

Restricted Electives

(12-15 hrs)

Select four or five:

MAR 3323 Integrated Marketing Communication
MAR 3391 Professional Selling
MAR 3403 Sales Force Management
MAR 3503 Consumer Behavior
MAR 3613 Marketing Analysis and Research
MAR 3641 Marketing Intelligence
MAR 3721 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
MAR 4XXX	Contemporary Marketing Topics in Florida

*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.
- A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

MASS COMMUNICATION: Minor

College of Sciences

Nicholson School of Communication

COMM 238, 407-823-2681

<http://communication.cos.ucf.edu>

E-mail: communication@ucf.edu

Contact: R. Morales, 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 2030	History of Motion Pictures
FIL 3006	Art of the Cinema
FIL 3041	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.
- Not open to Math or Math Education majors.
- A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

MATHEMATICS EDUCATION: Minor

(Open to Non-Mathematics Education Majors)

College of Education

Department of Teaching and Learning Principles

ED 209

<http://education.ucf.edu/mathed/>

Program Coordinator: Janet Andreasen, ED 123Q, 407-823-5430;

E-mail: jandreas@mail.ucf.edu

The Mathematics Education minor is intended for non-Mathematics Education majors. It is well suited for students majoring in another secondary content area or as an area for students enrolled in Interdisciplinary Studies. This minor is available for students in the 2008 catalog year and beyond.

Credit Hour Requirements

19 hrs

EDG 4410	Teaching Strategies and Classroom Management	3 hrs
EDF 4467	Learning Theory and Assessment	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students In Schools	3 hrs
RED 4043	Content Reading Kindergarten thru Grade 12	3 hrs
MAE 4360	Mathematics Instructional Analysis	4 hrs
MAE 4634	Programs in Teaching Mathematics	3 hrs

Admission Requirements

- Have a minimum 2.5 overall GPA
- Complete the University General Education Program requirements or its equivalent, i.e. an A.A. degree from an approved Florida community college or state university

Other Requirements

- Students should see an advisor prior to registering for classes
- Students must complete 18 semester hours of courses in mathematics as co-requisites
- At least 12 hours in the minor must be earned at UCF

Minors

MEDIEVAL AND RENAISSANCE STUDIES: Minor

College of Arts and Humanities
Department of English, CNH 302D
<http://www.english.cah.ucf.edu/>
Contacts: Tison Pugh, 407-823-4454

An interdisciplinary minor that offers students a background of the history, literature, languages, art, music, and philosophy of the Middle Ages and Renaissance.

Credit Hour Requirements: (18 hrs)

Students are responsible for meeting any prerequisites for the courses in the minor.

Required Core Courses (6 hrs)

Select two courses from the following:

HUM 3435	Medieval Humanities
ENL 4311	Chaucer
or ENL 4333	Shakespeare Studies
or ENL 4341	Milton and His Age
EUH 3122	Medieval Society

Required Electives (12 hrs)

Select no more than two from each disciplinary group:

Department of Art

ARH 4200	Medieval Art
ARH 4310	Italian Renaissance Art

Department of English

ENL 4220	English Renaissance Poetry and Prose
ENL 4311	Chaucer
ENL 4333	Shakespeare Studies
ENL 4341	Milton and His Age

Department of History

AMH 4110	Colonial American History
AMH 4112	History of the Atlantic World, 1492-1800
EUH 3122	Medieval Society
EUH 3142	Renaissance and Reformation
EUH 3531	Medieval Ireland
EUH 3536	Early Modern Ireland
EUH 3930	Early Modern Spain (1469-1700)
EUH 3124	The Crusades
EUH 4500	English History to 1485
EUH 4501	English History 1485 to 1815
EUH 4610	Women in European Society: From Medieval to Modern

Department of Modern Languages

FRW 3100	Survey of French Literature I: Middle Ages through 18th Century
ITW 3100	Survey of Italian Literature I: Medieval to Renaissance
ITT 3443	Dante
LAT 1120C	Elementary Latin Language and Civilization I
LAT 1121	Elementary Latin Language and Civilization II
SPW 3100	Survey of Spanish Literature I: Medieval & Golden Age
SPW 3370	Spanish Short Story: Medieval & Golden Age
SPW 4310	Golden Age Drama
SPW 4322	Spanish Iberian Theatre: Medieval & Golden Age
SPW 4604	Cervantes

Department of Music

MUH 4322	Medieval and Renaissance Music
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Department of Philosophy

PHH 3200	Medieval Philosophy
HUM 3435	Medieval Humanities

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 College of Arts and Humanities.
- Course substitutions may be accepted upon approval of the advisor.

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 1120C, 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 Sean Morgan, 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 can be used toward the minor.

MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor

College of Medicine
Burnett School 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 or	
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 205A
<http://www.music.cah.ucf.edu>

Academic Advisor: Kirk Gay, 407-823-5968; Fax 407-823-3378,
E-mail: kgay@mail.ucf.edu

Credit Hour Requirements

Required Courses

MUT1121	Music Theory and Musicianship I	4 hrs
MUT1122	Music Theory and Musicianship II	4 hrs
Select 1:		3 hrs

MUL 2010	Enjoyment of Music
MUL 2016	Evolution of Jazz
MUL 2720	Music of the World
MUH 2017	Survey of Rock Music
MUH 2019	American Popular Music, 1840s-Present

Restricted Electives

(9 hrs)

Restricted electives must be taken from the Department of Music at UCF and must include three 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)	6 hrs
(on the same performance medium)	
MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT	3 hrs
(3000 or 4000 level course)	

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) 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.

NONPROFIT MANAGEMENT: Minor/AMERICAN HUMANICS NATIONAL CERTIFICATION PROGRAM

College of Health and Public Affairs
Department of Public Administration, HPA 238

Campus Director: Stephanie Krick, Ph.D.; 407-823-0661;
E-mail: skrick@mail.ucf.edu

The Nonprofit Management Minor/American Humanics National Certification Program at the University of Central Florida will provide interdisciplinary classroom experience and experiential learning opportunities for students planning a career as a nonprofit professional. If all of the following requirements are met (including "Other Requirements"), the student can earn both a minor and National Certification in American Humanics.

Credit Hour Requirements

Required Courses

PAD 3930	American Humanics Human Service Workshop	3 hrs
	(1 credit repeated three semesters)	
PAD 4948	American Humanics Internship	3 hrs
Internships within other programs may be accepted with prior approval of American Humanics advisor.		
PAD 4144	Nonprofit Organizations	3 hrs

Students can earn the remaining nine credit hours by pursuing either the Generalist Emphasis or the Public Affairs Emphasis. The requirements for each are as follows:

Generalist Emphasis

Restricted Electives

(9 hrs)

Choose at least one course from each of the following three groups.

Group I: Nonprofit Accounting & Financial Management and Planning & Evaluation.

ACG 2021	Financial Accounting*
ACG 2071	Managerial Accounting*
DEP 2004	Developmental Psychology*
DEP 3464	Psychology of Aging*
EDG 4941	Directed Field Experience*
MAN 3025	Management of Organizations*1

PAD 4131	Public Sector Project Management
PAD 4204	Fiscal Management
PAD 5850	Grant and Contract Management*
PPE 3003	Personality Theory*
SOW 3401	Social Work Research Methods*

Group II: Human Development and Human Resource Development, 3 hrs and Volunteerism

MAN 3301	Management of Human Resources*
MAN 4101	Human Relations in Management*
MAN 4320	Human Resources Recruitment and Selection*
PAD 4414	Public Personnel Administration
PAD 4148	Volunteer Management
PAD 4153	Planning and Improvement for Public Organizations
PAD 4325	Program Evaluation for Public & Nonprofits*
SOW 3203	Social Work & Community Resources
SOW 3104	Assessing I - Human Development

Group III: Communication & Marketing and Fund Raising Principles 3 hrs & Practices

COM 3110	Business and Professional Communications*
GEB 3031	The Cornerstone Course*
MAR 3023	Marketing
MAR 3641	Marketing Intelligence*
MAR 4803	Marketing Management
PAD 4147	Resource Development in the Nonprofit Sector
SOW 3352	Interpersonal Skills in Social Work*
SPC 3301	Interpersonal Communications

or

Public Affairs Emphasis

Restricted Electives

(9 hrs)

Choose at least three courses from the following:

PAD 4148	Volunteer Management
PAD 4153	Planning and Improvement
PAD 4131	Public Sector Project Management
PAD 4147	Resource Development in the Nonprofit Sector
PAD 4204	Fiscal Management
PAD 4223	Public Budgeting*
PAD 4253	Community and Economic Development*
PAD 4325	Program Evaluation for the Public and Non-Profit Organization*

Other Requirements for American Humanics National Certification

- Enrollment in American Humanics Certification Program through AH program office.
- Attendance at one national American Humanics Management Institute (additional fees)
- Membership in UCF American Humanics Student Association

*Indicates course has prerequisites or may be open only to students in the major. Please see catalog for details.

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

Required Courses

(18 hrs)

ANT 4910	Research	3 hrs
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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

Minors

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

Not available to Management Information Systems Majors.

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

Required Courses

19 hrs

ISM 3011C	Essentials of Management Information Systems	4 hrs
ISM 3530	Quality and Productivity Management	3 hrs
ISM 4153C	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 six hours of the above listed required or elective courses can count toward another major or minor degree program.

PHILOSOPHY: Minor

College of Arts and Humanities

Department of Philosophy, PSY 220

<http://www.philosophy.cah.ucf.edu/>

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
PHI 4935	Topics in Philosophy of Mind

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, PSY 220
<http://www.philosophy.cah.ucf.edu/>
E-mail: philosophy@ucf.edu

Advisor (UCF Orlando Campus): Doug Evans, 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:

CLT 3378	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 Series **(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 the Environment
PHM 3401	Philosophy of Law
PHI 3638	Ethical Issues in the 21 st 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.
- No more than two courses (i.e. six credit hours) of 3000 or 4000 level courses applied to the Minor in Humanities: Philosophy,

Religion & Popular Culture may be simultaneously applied to fulfill another major.

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

Not open to Physics majors.

Credit Hour Requirements

Required Courses

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 PHY3XXX or PHZ3XXX 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 of upper level courses 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, PH 302
E-mail: politics@ucf.edu
<http://www.cos.ucf.edu/politicalscience>

Contact: Roger Handberg, 407-823-2608

- Double major/dual degree policy in Political Science programs and minors
 1. Students who major in International and Global Studies, and minor in Political Science, shall not count more than one course toward both programs, except POS 2041.
 2. Students who double minor in Political Science and International and Global Studies shall not count more than one course toward both programs.

Credit Hour Requirements **18 hrs**
Required Course **(3 hrs)**

POS 2041	American National Government	3 hrs
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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.
- Five upper division Political Science courses (those with prefixes CPO, INR, POS, POT, PUP and one GEO – World Political Geography; see the Political Science Major description for a list of courses that may be offered by the department).

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 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, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

Minors

POLITICAL SCIENCE/PRELAW: Minor

College of Sciences

Department of Political Science, PH 302

<http://www.cos.ucf.edu/politicalscience>

E-mail: politics@ucf.edu

Contact: Roger Handberg, 407-823-2608

- Double major/dual degree policy in Political Science programs and minors
 1. Students who major in International and Global Studies, and minor in Political Science, shall not count more than one course toward both programs, except POS 2041.
 2. Students who double minor in Political Science and International and Global Studies shall not count more than one course toward both programs.

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
- Three upper division Political Science courses (those with prefixes CPO, INR, POS, POT, PUP and one GEO – World Political Geography; see the Political Science Major description for a list of courses that may be offered by the department).

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.
- 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

Department of Psychology, PSY 301

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

E-mail: psychadvising@mail.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 or
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
PSY 3703 Psychology of Language
PSB 4240C Neuropsychology

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: Dr. Michael Abels, 407-823-2604,

E-mail: mabels@mail.ucf.edu

The Public Administration minor is related to one of the fastest growing fields in the United States today. Students studying Public Administration will gain a greater understanding of tools associated with management of public sector organizations-including fiscal management, survey research, public administration, and human resource management.

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.
- 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)

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 2100 Personal Finance and Investments 3 hrs
FIN 3403C 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 Child, Family and Community Sciences, ED 209

Program Coordinator: Debby Mitchell, ED 320H, 407-823-6598;
E-mail: mitchell@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. This minor is available for students in the 2007 catalog year and beyond.

Credit Hour Requirements

18 hrs

Required Courses

(18 hrs)

PEO 3041	Games Analysis	3 hrs
PET 3765	Coaching Theory	3 hrs
PET 3820	Teaching Sports Skills I	3 hrs
Restricted Electives – Choose 3 classes from the following:		
DAE 3370	Dance and Rhythms	3 hrs
PET 3771	Fitness and Conditioning Concepts	3 hrs
PET 4050C	Motor Development and Learning	3 hrs
PET 4312	Biomechanics	
SPM 3130	Aquatic Management	
PET 4002	Outdoor and Leisure Activities	
SPM 3204	Sports and Ethics	
SPM 3415	Public Relations in Sports and Fitness	
PET 3361	Nutrition for Sports and Fitness	

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

Department of Philosophy

PSY 220, 407-823-2273; Fax: 407-823-6658

<http://www.philosophy.cah.ucf.edu/>

E-mail: religion@mail.ucf.edu

Program Director: 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)		
Religion, Humanities, Classics, and Philosophy courses (12 hrs)		
REL 3131	Religion in America	
REL 3115	Religion, Philosophy and Film	
REL 3111	Religion, Spirituality, and Popular Music	
REL 3432	Roots of Western Mysticism	

REL 3340	Buddhist Thought
REL 4110	Religion and the Arts
REL 4180	Religion and Medicine
HUM 3320	Contemporary Multicultural Studies
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
HUM 4303	The Spiritual Ideal
HUM 4330	Performance Theory
HUM 4554	Religious Quest and the Human Dilemma
CLT 3370	Classical Mythology
CLT 3378	Comparative Mythology
PHI 3033	Philosophy, Religion, and the Environment
PHI 3638	Ethical Issues in the 21st Century
PHI 3672	Animal Ethics
PHI 3684	Ways of Living
PHI 3700	Philosophy of Religion
PHM 3020	Philosophy of Love
PHI 4321	Philosophy of Embodiment: Mind/Body/Self
PHI 4341	Ways of Knowing
PHI 4804	Critical Theory
PHM 3100	Freedom and Justice
PHP 3786	Existentialism

Courses offered through other Departments

(6 hrs)

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 3005	Tenets of Judaism
JST 3125	The Book of Job
JST 3144	Dead Sea Scrolls
JST 3450	Modern Jewish Experience
JST 3810	The Jewish National Movement and Roots of Zionism
LIT 3202	Death and Dying
LIT 4374	Literature of the Bible
POT 4632	Religion and Politics
SYO 4200	Sociology of Religion

Note: Other courses, including special topics, may be applied toward the Minor with the approval of the 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 prior approval by the Director.

SCIENCE EDUCATION: Minor

(Open to Non-Science Education Majors)

College of Education

Department of Teaching and Learning Principles

ED 209

<http://education.ucf.edu/science/>

Program Coordinator: Aldrin Sweeney, ED 123L, 407-823-2561;

E-mail: asweeney@pegasus.cc.ucf.edu

The Science Education minor is intended for non-Science Education majors. It is well suited for students majoring in another secondary content area or as an area for students enrolled in Interdisciplinary Studies. This minor is available for students in the 2008 catalog year and beyond.

Credit Hour Requirements

19 hrs

EDG 4410	Teaching Strategies and Classroom Management	3 hrs
EDF 4467	Learning Theory and Assessment	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students In Schools	3 hrs
RED 4043	Content Reading Kindergarten thru Grade 12	3 hrs
SCE 4360	Science Instructional Analysis	4 hrs
SCE 4361	Programs in Teaching Science	3 hrs

Admission Requirements

- Have a minimum 2.5 overall GPA

Minors

- Complete the University General Education Program requirements or its equivalent, i.e. an A.A. degree from an approved Florida community college or state university

Other Requirements

- Students should see an advisor prior to registering for classes
- Students must complete 18 hrs of courses in science as co-requisites
- At least 12 hours in the minor must be earned at UCF

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

Required Courses

CIS 3360	Security in Computing	3 hrs
CIS 3362	Cryptography and Information Security	3 hrs

Select one:

CNT 4703C	Network Labs	3 hrs
CNT 4704	Computer Communications Network	3 hrs
CET 4483	Local Area Networks	3 hrs
EEL 4781	Computer Networks	3 hrs

Elective Courses

Select any three courses from the following list:

Network Security:

CET 4663	Computer and Network Security	3 hrs
or CNT 4403	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 SCIENCE EDUCATION: Minor

(Open to Non-Social Science Education Majors)

College of Education

Department of Teaching and Learning Principles

ED 209

<http://education.ucf.edu/ssed/>

Program Coordinator: Scott Waring, ED 123H, 407-823-1766;

E-mail: swaring@mail.ucf.edu

The Social Science Education minor is intended for non-Social Science Education majors. It is well suited for students majoring in another secondary content area or as an area for students enrolled in Interdisciplinary Studies. This minor is available for students in the 2008 catalog year and beyond.

Credit Hour Requirements

EDG 4410	Teaching Strategies and Classroom Management	3 hrs
EDF 4467	Learning Theory and Assessment	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students In Schools	3 hrs
RED 4043	Content Reading Kindergarten thru Grade 12	3 hrs
SSE 4361	Social Science Instructional Analysis	4 hrs
SSE 4936	Programs in Teaching Social Science	3 hrs

Admission Requirements

- Have a minimum 2.5 overall GPA
- Complete the University General Education Program requirements or its equivalent, i.e. an A.A. degree from an approved Florida community college or state university

Other Requirements

- Students should see an advisor prior to registering for classes
- Students must complete 18 semester hours of courses in science as co-requisites
- At least 12 hours in the minor must be earned at UCF

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor

College of Sciences

Department of Sociology, PH 403, 407-823-3744

<http://sociology.ucf.edu/>

E-mail: sociology@ucf.edu

Contact: J. Corzine, 407-823-3744

Not open to Social Sciences majors.

Credit Hour Requirements

Required Courses

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

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.

SOCIOLOGY: Minor

College of Sciences

Department of Sociology, PH 403

<http://sociology.ucf.edu/>

E-mail: sociology@ucf.edu

Contact: Jay Corzine, 407-823-3744

Credit Hour Requirements

Required Courses

SYG 2000 General Sociology

Restricted Electives

2000-4000 level Sociology courses

Restricted Upper Division Electives

3000-4000 level Sociology courses

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 three hours of Independent Study credit can be used toward the minor.
- Not open to Sociology majors.

SPANISH: Minor

College of Arts and Humanities

Modern Languages and Literatures, CNH 523

<http://mll.cah.ucf.edu/>

E-mail: forlang@mail.ucf.edu

Contact: P. Giordano, 407-823-2472

Credit Hour Requirements

Restricted Electives

- 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		18 hrs
Required Courses		12 hrs
SPB 3003	Introduction to Sport Business Management	3 Hrs
SPB 3603	Diversity and Social Issues in Sport Business Management	3 Hrs
SPB 3823	Role of Business Entrepreneurship in Sport/Ent	3 Hrs
MAR 4711	Sports Marketing	3 Hrs
Restricted Electives		6 hrs
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 do not count toward the minor.
- 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 3823). 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

Department of Statistics and Actuarial Science, CC II 212

<http://statistics.cos.ucf.edu/>

E-mail: statistics@ucf.edu

Contact: Xiaogang Su, 407-823-2940

Credit Hour Requirements		18 hrs
Required Courses		(9 hrs)
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		(9 hrs)
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 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.

TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor

College of Education

Department of Teaching and Learning Principles, ED 209

<http://education.ucf.edu/teched/>

Contact: Jo Ann M. Whiteman, ED 115D, 407-823-2848

or 407-325-6293; E-mail: 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. This minor is available for students in the 2003 catalog year and beyond.

Credit Hour Requirements		18 hrs
Entrance requirements		Junior standing
Required courses		18 hrs
ADE 4382	Teaching Adult Learners	3 hrs
EVT 4368	Advanced Teaching Techniques in Vocational Education	3 hrs
EVT 3062	Professional Role of the Vocational Teacher	3 hrs
EVT 3367	Evaluation in Vocational Education	3 hrs
EVT 4169	Curriculum Development for Industry Training	3 hrs
EVT 4065	Principles and Practices in Technical Education	3 hrs

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.

TECHNOLOGICAL ENTREPRENEURSHIP: Interdisciplinary Minor

College of Business Administration

& College of Engineering and Computer Science

Department of Management, BA 307

407-823-5569; Fax: 407-823-3725

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

Contact: Cameron Ford; E-mail: cford@bus.ucf.edu

The Technological Entrepreneurship Minor offers students an opportunity to blend deep discipline-specific expertise with broad entrepreneurial thinking skills. Combining disciplinary depth with entrepreneurial breadth promotes the introduction of innovations to society and creates economic rewards to those who champion those innovations. This minor will prepare students in any engineering, science, technology or business discipline to create, enhance or manage a technology venture. Topics covered would include evaluating opportunities for commercializing innovations, analyzing markets and competitors, assessing options for protecting intellectual property, and exploring options for establishing and financing technology ventures.

Credit Hour Requirements		18 hrs
Required Courses		(9 hrs)
GEB 3113	How to Start a Business	3 hrs
GEB 4152	Technological Entrepreneurship	3 hrs
GEB 4110	Business Plan Preparation	3 hrs

Restricted Electives		(9 hrs)
Innovation design or research sequence		6 hrs*
Discipline-specific or experiential sequence		3 hrs**

*Any 6-credit sequence approved by the program coordinator in coordination with faculty in partner discipline that addresses discipline-specific innovation and commercialization processes. These may include senior design courses, capstone research sequences, or relevant honors theses. Examples of approved course sequences for the minor include:

Minors

- All engineering, interdisciplinary students (e.g., business): EGN 4412C & EGN 4413C
- BSEE, BSCPE: EEL 4914 & EEL 4915L
- BSME: EML 4501C & EML 4502C
- BSCE: CCE 4810C & CEG 4801C
- BSAE: EAS 4700C & EAS 4710C

**Any 3-credit discipline-specific or experiential learning entrepreneurship course sequence approved by the program coordinator in coordination with faculty in partner discipline. Examples would include discipline-specific entrepreneurship courses like Engineering Entrepreneurship (EGN 4XXX), internships in small or technology-based companies, lecture series, or field research courses that specifically address entrepreneurship or innovation.

Other Requirements

- A minimum GPA of 2.25 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.
- At least 12 credit hours in the minor must be from UCF.

THEATRE: Minor

College of Arts and Humanities
Department of Theatre, UTC 180

<http://www.theatre.cah.ucf.edu>

E-mail: theatre@ucf.edu

Contact: Earl Weaver, 407-823-2862, E-mail: eweaver@mail.ucf.edu

Credit Hour Requirements 18 hrs

Entrance Requirement

A successful interview and current resume

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
or		
THE 2020	Survey of Theatre for Majors	
THE 2304	Script Analysis	3 hrs
THE 3311	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.
- Student must consult theatre advisor every semester. Students who do not consult with their department advisor will be placed on departmental probation which causes him/her to be ineligible for casting or other production positions.
- 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: Jay Jurie, 407-823-2604, E-mail: jurie@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.

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
<http://womensstudies.cah.ucf.edu>

E-mail: womenst@ucf.edu

Contact: K. M. Oliver, 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 (6 hrs)

WST 3015	Introduction to Women's Studies	3 hrs
Select one course from the Theories Group:		3 hrs
PHM 3123	Feminist Theories	
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 3371	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 3880C	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 Undergraduate Studies

Office of Interdisciplinary Studies, CL1 302

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

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

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 4704	International Macroeconomics
ECO 4701	Seminar in Global Economic Policy
ECS 4013	Economics of Developing Areas
ECP 3302	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 3302	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
ANT 3273	Law and Culture
ANT 4702	Culture Power and Development
PLA 4830	World Legal Systems
SYP 4454	Sociology of the Global System

E. Media and Communication

FIL 3845	World Cinema Traditions
FIL 3842	International Cinema
FIL 4844	Africana Cinema
COM 4461	Intercultural Communication
LIN 4643	Cross Cultural Communication
THE 3212	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.

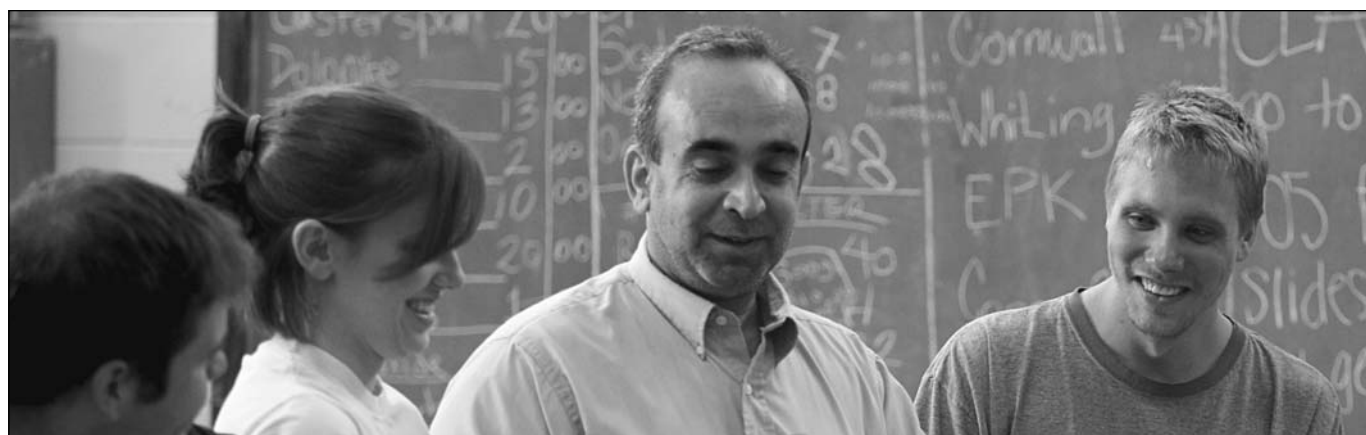
Foreign Language Proficiency Requirement

(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.

Other Requirements

- A grade of "C" or above (2.0) is required in each course 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.
- Internship or Independent Study and international experiences require prior approval from the Interdisciplinary Studies advisors to be used toward the minor.



CERTIFICATES

ADDICTIONS: Certificate

College of Health and Public Affairs

School of Social Work, HPA 204

E-mail: socialwk@mail.ucf.edu

BSW Coordinator: 407-823-2114

This certificate is awarded 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, primarily substance abuse. 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 focuses on 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 awarded 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.

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: Certificate

College of Health and Public Affairs

School of Social Work, HPA 204

E-mail: socialwk@mail.ucf.edu

BSW Coordinator: HPA 407-823-2114

In recognition of the special needs of the older adults in Central Florida, the school offers a 15-credit interdisciplinary program open to all students in any major as well as non-degree seeking students. This certificate prepares students for careers in applied gerontology, research, public service or for graduate training. Courses focus on the physiological, psychological, sociological, environmental, cultural, legal-ethical and public policy issues affecting older adults. Students majoring in health professions, biomedical sciences, criminal justice and legal studies, hospitality management, psychology, social work, nursing, sociology, business, exercise science, physical education, communication sciences and disorders or education find study of the aging process especially helpful. The certificate may be completed as a fully web-based program. A required internship, along with course options that include service-learning activities, complements the web-based course of study.

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)

SOW4510 <i>or</i> SOW 4941	Field Education (for full-time students) <i>or</i> Field Education (for part-time students over two semesters)	9 hrs
HSA 4941	Internship	3 hrs
PSY 3951	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 4732	Minority Aging	3 hrs

*Open to undergraduates with senior standing

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>

Undergraduate Program Director: 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

ASL 2140	Introduction to American Sign Language	4 hrs
ASL 2150	Intermediate American Sign Language	4 hrs
ASL 4161C	American Sign Language III	4 hrs
ASL 4201	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 eight 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/>

Contact: Karen Mottarella, 321-433-7982,

E-mail: kmottare@mail.ucf.edu

This certificate must be completed along with a Bachelor's degree program of study. Certificates will be awarded only at the time of degree completion.

The Behavioral Forensics Certificate is an interdisciplinary course of study that focuses on ways society attempts to recognize and deal with various forms of criminal behavior. The certificate exposes students to the practice of psychology within the legal system, including topics such as confidentiality, competency and insanity.

Credit Hour Requirements	27 hrs
Prerequisite Courses	(6 hrs)
Complete <u>one</u> introductory course:	GEF
PSY 2012 General Psychology <i>or</i>	
SYG 2000 General Sociology	
Complete <u>both</u> of these:	
PPE 3003 Personality Theories	3 hrs
SYP 3510 Sociology of Deviant Behavior	3 hrs
Required Courses	(9 hrs)
CLP 4390 Forensic Psychology	3 hrs
SOP 3751 Legal Aspects of Psychology	3 hrs
SYP 3520 Criminology	3 hrs

Restricted Electives (12 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 two of the following:

SYP 3511	Sociology of Murder
SYP 3530	Juvenile Delinquency
SYP 3540	Sociology of Law
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
CJE 4012	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, HPA 204

E-mail: socialwk@mail.ucf.edu

BSW Coordinator: 407-823-2114

This certificate is awarded 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 <i>or</i> Field Education* (for full-time students) <i>or</i>	9 hrs
SOW 4941 Field Education* (for part-time students over two semesters)	

*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

HPA 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
CJE 4350	Policy Development in Law Enforcement	3 hrs
CJE 4572	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,

HPA 311; Department of Sociology and Anthropology, PH 403

Contact: David Fabianic, 407-823-5940,

E-mail: Fabianic@mail.ucf.edu;

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
CJE 4012 Criminal Profiling in CJ	3 hrs
CJE 4610 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

*Refer to UCF Catalog for limited offerings.

Certificates

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 may not be used toward the program.

CRIMINAL PROFILING: Certificate

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies

HPA 311

Contact: David Fabianic, 407-823-5940,
E-mail: fabianic@mail.ucf.edu; 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
CJE 4012	Criminal Profiling in Criminal Justice	3 hrs

Restricted Upper Division Electives

(3 hrs)

Select one of the following:

CJE 4610	Criminal Investigation	3 hrs
DSC 4012	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 Undergraduate Studies

Office of Interdisciplinary Studies, CL1 302

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

E-mail: is@mail.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 American.

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 3701	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 cannot be used toward the certificate without prior permission of the program director

DIPLOMACY: Certificate

College of Sciences

Department of Political Science, PH 302, 407-823-2608

<http://www.cos.ucf.edu/politicalscience>

Department of History, MH 552, 407-823-2225

<http://www.cah.ucf.edu/history>

Contact: Dr. R. Handberg; Dr. E. Kallina

In an increasingly shrinking, interdependent world, an understanding of diplomacy and diplomatic processes is critical for work in global business, international organizations and government. Students who complete this certificate program will have gained experience in diplomatic history, concepts, theories, methods, protocol and practice.

For degree-seeking students, certificates will be awarded only at the time of degree completion.

Credit Hour Requirements

15 hrs

Required Courses

(9 hrs)

INR 4030	Diplomacy	3 hrs
AMH 4513	U.S. Diplomacy: 1945-present	3 hrs.
INR 4102	American Foreign Policy	3 hrs

Restricted Upper Division Electives

(6 hrs)

Select two of the following:

INR 4114	American Security Policy
INR 4054	Global Politics of Energy
INR 4074	Immigration Policy
INR 4075	Human Rights Policy
INR 4076	Global Drug Policy
INR 4714	Politics of International Trade Policy
INR 4104	Topics in American Foreign Policy
INR 4351	International Environmental Law
INR 4401	International Law I
INR 4502	International Organizations
AMH 4512	U.S. Diplomacy: 1914-1945.
EUH 4620	European Great Powers: 1815-1914

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 participating departments.
- No credit by exam (TSD, Military credit) may be used.
- Internships, independent study and substitute courses/new courses are allowed at the directors' discretion.

EDUCATIONAL STUDIES: Certificate

College of Education

Department of Educational Studies, ED 206E

Only open to non-education majors

http://education.ucf.edu/es/es_certificate.cfm

Program Coordinator: W. Scott Wise, ED 220B, 407-823-1502,
E-mail: wwise@mail.ucf.edu

The Educational Studies certificate is intended to provide for students outside the College of Education a limited but substantial experience in the fields of professional education. Students who successfully complete this certificate can expect to increase their marketability in careers that include educational components such as instructing, training, and lecturing. This certificate is designed to promote student success on the Florida Teacher Certification Exams but does not qualify students for teacher certification or admission into the College of Education. An Educational Studies minor that includes a sixth course is also an alternative. This certificate is available for students in the 2007 catalog year and beyond.

Credit Hour Requirements

15 hrs

Core Courses

(12 hrs)

EDF 4603	Analysis & Application of Ethical, Legal, and Safety Issues in Schools	3 hrs
EDF 4467	Learning Theory & Assessment	3 hrs
EDG 4410	Teaching Strategies & Classroom Management	3 hrs
RED 4043	Content Reading in Kindergarten through Grade Twelve	3 hrs

Restricted Electives (select one)

(3 hrs)

MAE 4634	Programs in Teaching Mathematics	3 hrs
SCE 4361	Programs in Teaching Science	3 hrs
LAE 4464	Introduction to Adolescent Literature	3 hrs
LAE 4342	Teaching Language/Composition	3 hrs
SSE 4936	Programs in Teaching Social Science	3 hrs

Other Requirements:

- A grade of "C" (2.0) or better is required in each course used to satisfy the certificate.
- A minimum GPA of 2.5 of all Gordon Rule classes is required.
- At least 9 hours used in the certificate must be earned at UCF.
- No credit by exam (CLEP, Military credit) may be used.

Note: Completion of the certificate does not complete the requirements for teacher certification nor does it constitute admission to the College of Education.

ENERGY TECHNOLOGY: Certificate

College of Engineering and Computer Science

Department of Engineering Technology, ENGR 207

CECS Academic Affairs Office, ENGR 107

Contact: Ahmad Sleiti, 407-823-2728; Fax: 407-823-4746;

E-mail: asleiti@mail.ucf.edu

The Energy Technology Certificate supports the need for educated graduates that comprise the next generation workforce needed for energy research and development in government and industry. Program graduates will demonstrate an appropriate mastery of the knowledge, techniques, skills, and modern tools related to Energy Technology.

Certificate will only be awarded at the time of degree completion.

Credit Hour Requirements

(13 hrs)

ETM 4220	Applied Energy Systems	4 hrs
EGN 4300C	Hydrogen Production and Handling	3 hrs
EGN 4731C	Fuel Cell Technologies	3 hrs
EGN 4730	Renewable Energy Sys	3 hrs

Other Requirements

- A minimum grade of C (2.0) is required for all courses in the minor.
- No credit by exam (TSD, Military credit) may be used.

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 Finance 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 <i>or</i>	3 hrs
FIN 4941**	Internship	

- 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 3461	Financial Statement Analysis <i>or</i>	3 hrs
FIN 4424	Adv Topics in Financial Management	
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 415 E-J

<http://www.judaicstudies.cah.ucf.edu/>

E-mail: judaicst@pegasus.cc.ucf.edu

Program Director: Dr. 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 3250	Biblical Hebrew
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 3481	20th Century Jewish History and Thought
JST 3701	History of the Holocaust

Bible

JST 3120	Hebrew 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 3312	Identity and Genre
JST 3751	Literature of the Holocaust

Culture

JST 3450	Modern Jewish Experience
JST 3820	Modern Hebrew Culture
JST 3810	The Jewish National Movement

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Jewish Civilization

JST 3005	Tenets of Judaism
JST 3121	Classic Texts of Judaism

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 certificate.
- 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.

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>

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,
E-mail: jschwartz@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 who are not majoring in Communication Sciences and Disorders but are 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 minimum GPA of 2.0 in the courses used to complete the certificate.
- At least 10 hours used in the certificate 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.

LEADERSHIP STUDIES: Certificate

Office of Undergraduate Studies

Office of Interdisciplinary Studies, CL-I 302

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

E-mail: is@mail.ucf.edu

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The Leadership Studies (LS) certificate is an interdisciplinary academic program that focuses on developing several dimensions of leadership understanding and skills for undergraduate students. The certificate builds upon foundational courses with specific aspects of leadership covered.

Certificate will be awarded only at time of degree completion.

Total Credit Hour Requirements (13 hrs) Foundation Requirement (4 hrs)

LDR 1XXX	Foundations of Leadership	(2 hrs)
LDR 1XXX	Intermediate Foundations of Leadership (PR: LDR 1XXX Foundations of Leadership)	(2 hrs)

Restricted Requirements (9 hrs) Choose one course from each of three areas.

A. Communication

COM 3011C	Communication and Human Relations	(3 hrs)
COM 3120	Organizational Communication	(3 hrs)
COM 4461	Intercultural Communication (can only be used in Area A or Area C)	(3 hrs)
COM 4462	Conflict Management	(3 hrs)

B. Collaboration

INP 3004	Industrial/Organizational Psychology	(3 hrs)
INP 4313	Organizational Psychology	(3 hrs)
MAN 4240	Organizations: Theory and Behavior	(4 hrs)
MAN 3025	Management of Organizations	(4 hrs)
SPC 4426	Group Dynamics (PR: COM 3311)	(3 hrs)

C. Social Relations and Culture

ANT 3541	Biobehavioral Anthropology	(3 hrs)
CLP 3143	Abnormal Psychology	(3 hrs)
COM 4461	Intercultural Communication (can only be used in Area A or Area C)	(3 hrs)
EXP 3304	Motivation	(3 hrs)
SOP 3004	Social Psychology	(3 hrs)
SOP 3723	Cross Cultural Psychology	(3 hrs)
SOP 3742	Psychology of Women	(3 hrs)
SOP 3784	Psychology of Diversity	(3 hrs)

D. Politics

PAD 3003	Public Administration in American Society	(3 hrs)
PAD 4104	Administration Theory	(3 hrs)
PAD 4144	Non-Profit Organizations	(3 hrs)
PAF 4754	Interdisciplinary Leadership in Public Affairs	(3 hrs)
POS 3413	The American Presidency	(3 hrs)
POS 4206	Political Psychology	(3 hrs)
PUP 3325	Women and Political Behavior	(3 hrs)

E. Ethics

BUL 3130	Legal and Ethical Environment of Business	(4 hrs)
EDF 3601	Professional Ethics in Education	(3 hrs)
PAD 3040	Ethics and Values in Public Administration	(3 hrs)
PHI 2108	Critical Thinking	(3 hrs)
PHI 3640	Environmental Ethics	(3 hrs)

Other Requirements

- Earn a grade of "C" (2.0) or better in each course used to satisfy the certificate.
- At least 12 credit 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.
- Students cannot complete both the Leadership Studies certificate and the Leadership Studies minor.

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 Marketing 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 3721	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.

MILITARY SCIENCE: Certificate

College of Engineering and Computer Science

Army ROTC, BLDG 501

Contact: LTC Bryce Christensen, 407-823-1872

Students enrolled in the UCF Army ROTC Military Science Program who are contracted under a three semester option prior to Commissioning will be eligible for a Military Science Certificate in Military Studies. Application for a Military Science Certificate will be approved by the Military Science Department Chair once a contracted Cadet completes the 12 credit hours of MSL Advanced Course instruction and the 3 credit hour Military History Course for a combined total of 15 credit hours in Military Science.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses

MSL 3201C	Leadership and Problem Solving	4 hrs
or MSL 3202C	Leadership and Ethics	
MSL 4301C	Leadership and Management	4 hrs
MSL 4302C	Officership	4 hrs
AMH 3547	U.S. Military History since 1900	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.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit can be used toward the minor.
- Students earning the Military Science Minor are not eligible for this certificate.

NONPROFIT MANAGEMENT: Certificate

College of Health & Public Affairs

Department of Public Administration, HPA2 238

<http://www.cohpa.ucf.edu/pubadm/>

Contact: 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 (15 hrs)

PAD 4144	Nonprofit Organizations	3 hrs
PAD 4148	Volunteer Management	3 hrs
PAD 4147	Resource Development in the Nonprofit Sector	3 hrs
PAD 4325	Program Evaluation for Public and Nonprofit Organizations	3 hrs
PAD 4153	Planning and Improvement for Public Organizations	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.
- 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>

*Restricted to Real Estate majors

Credit Hour Requirements 15 hrs

Certificates will be awarded only at the time of Real Estate 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 Investment 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 (12 hrs)

SCC 3311	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:

DSC 4012	Conflict and Terrorism	3 hrs
CJE 3444	Crime Prevention	3 hrs
SCC 3316	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, FC 203

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

Contact: A. Zeh, 407-823-266, E-mail: azeh@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. Since this certificate requires the completion of four SL courses, it reflects significant interest and commitment to this

Certificates

process. 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 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

<http://education.ucf.edu/>

Program Coordinator: W. Scott Wise, ED 220B 407-823-1502,
E-mail: wwise@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. This certificate is available for students in the 2006 catalog year and beyond.

Credit Hour Requirements

9 hrs

Required Courses

EDF 2007	Introduction to Substitute Teaching	3 hrs
EDF 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://ml.cah.ucf.edu/>

E-mail: forlang@mail.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

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

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 HPA 311

Contact: 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

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 4516	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 4129	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://womensstudies.cah.ucf.edu>

E-mail: womenst@ucf.edu

Contact: K. M. Oliver, 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:

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 nine hours used in the certificate must be earned at UCF.

STUDY ABROAD PROGRAMS

International Studies

Director: Angel Cardec; Research Pavilion, Suite 395,
P.O. Box 163105, Orlando, FL 32816-3105; 407-882-2300;
Fax: 407-882-0240;
<http://www.international.ucf.edu>.

The Office of International Studies (OIS) connects UCF students and faculty to diverse world communities. Its 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: development and administration of UCF study abroad programs; faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

Study Abroad Programs

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

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 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 OIS, and are designed to provide an exceptional learning experience, while matching the specific needs and circumstances of UCF students. The two main types of pro-

grams 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 past short term programs include the following: intensive language programs in France, Japan, Germany, Spain and Italy; Tropical Marine Biology in Honduras; International Business in France and Spain; Criminal Justice in Costa Rica and Russia; Education in the United Kingdom; International Gastronomy in France and Italy; and Art in Scotland.

Reciprocal Student Exchanges (RSE) provide the opportunity to become a student at a university abroad for one term 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. Past RSE include the following: Universit'e d'Angers, ICN School of Business and Paris VI in France; Meikai University in Japan; University of Lima in Peru; Jonkoping and Malardalen universities in Sweden; and Northampton University and University of Surrey in the United Kingdom.

There are many more study abroad options. It is important that interested participants 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.studyabroad.ucf.edu> or contact OIS 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 the Catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Aerospace Engineering major in the Catalog for the CPP requirements)

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 AE Matls	3 hrs
EGN 3373	Principles of Electrical Engineering	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	3 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 3034C	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 (9 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	3 hrs
or EGN 4412C	Interdisciplinary Design I	
EAS 4710C	Aerospace Design II	3 hrs
or 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.

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 to which they are admitted. 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

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

Accelerated Undergraduate-Graduate Programs

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

HPA2 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.

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.

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 *or* MGF 1107
 - Select STA 2014C *or* STA 2023
- D. Social Foundations 6 hrs
 - Select PSY 2012 Gen Psych
 - Select one of the listed choices (ECO 2013, ECO 2023), *or* (POS 2041)
- E. Science Foundations 6 hrs
 - One biological science (Prefer BSC 1005 General Biology)
 - Select 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	Audiological 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	
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 of Communication Sciences and Disorders.

6. Shared Bachelor's and Master's Courses (18 hrs)

SPA 6402	Preschool Language Disorders	3 hrs
SPA 6403	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 6503	Entry-Level Clinical Practicum	3 hrs

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.

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

Accelerated Undergraduate-Graduate Programs

COMPUTER ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.P.E./M.S.P.E.)

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corporation Engineering Ctr., Rm 346,
407-882-2313; Fax: 407-823-5835,
<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
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)

See Computer Engineering major in the Catalog for track specific GEP requirements.

2. Common Program Prerequisites (CPP's) (19 hrs)

See Computer Engineering major in the Catalog for the CPP requirements.

3. Courses Required for the Computer Engineering Core (8 hrs)

See Computer Engineering major in the Catalog for a listing of Computer 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 (48 hrs)

COT 3100C	Discrete Structures	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
COP 3330	Object Oriented Prog	3 hrs
COP 4331C	Processes Object Oriented SW Dev	4 hrs
EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEE 3307C	Electronics I	4 hrs
EEE 3342C	Digital Systems	3 hrs
EEL 3801	Computer Organization	3 hrs
EEL 4767C	Embedded Systems	4 hrs
EEL 4768C	Computer Architecture	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
COP 4600	Operating Systems	3 hrs

5. Approved Technical Electives (9 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.P.E.) 128 hrs

9. Shared B.S.P.E./M.S.P.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.P.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.P.E./M.S.P.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.P.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.

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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 346,
407-882-2313; Fax: 407-823-5835
<http://www.eecs.ucf.edu>

Contact: Ronald Dutton, E-mail: dutton@eecs.ucf.edu;
Traci Freund, E-mail: tfreund@eecs.ucf.edu

Admission Guidelines

- See Common Program Prerequisites.
- Qualified students may apply after completion of a minimum of 60 credit hours and successful completion of the Foundation Exam.
- 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.

Accelerated Undergraduate-Graduate Programs

1. UCF General Education Program (36+3hrs)

(See Computer Science major in the Catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (15 hrs)

(See Computer Science major in the 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
EEL 3801	Computer Organization	3 hrs
COT 3100C	Intro to Discrete Structures	3 hrs
CIS 3360	Security in Computing	3 hrs
COP 3402	Systems Software	3 hrs
COT 3960	Foundat. Exam (PR:COT 3100C & COP 3502C)	0 hrs

4. Advanced Core (20 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
EEL 4768C	Comp Architecture	4 hrs
COT 4210	Discrete Comp Structures	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs
COT 4810	Topics in Computer Science	3 hrs

5. Restricted Electives (15 hrs)

- 5000 level Computer Science courses
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 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 (B.S.) 120 hrs

10. 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.

11. 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

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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: Michael Caputo, BA2 302Q, 407-823-1405,
E-mail: mcaputo@bus.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
Preferred: SPC 1608	
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>	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 (3 hrs)

ECO 2013*	Principles of Macroeconomics
ECO 2023*	Principles of Microeconomics

*See Transfer Notes for possible substitutions

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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

Accelerated Undergraduate-Graduate Programs

*At UCF, students who have completed MAC 2233 (or any Calculus1 & 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.

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.

Equipment Fee

- Full-time Student \$30 per term
- Part-time Student \$15 per term

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 346,
407-882-2313; Fax: 407-823-5835
<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.
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)

(See Electrical Engineering major in the Catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Electrical Engineering major in the Catalog for the CPP requirements)

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Courses Required for the Electrical Engineering Core (14 hrs)

(See Electrical Engineering major in the 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
EEE 3350	Semiconductor Devices I	3 hrs
EEE 3307C	Electronics I	4 hrs
EEE 3342C	Digital 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	Computer Organization	3 hrs
EEE 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Embedded Systems	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.

Accelerated Undergraduate-Graduate Programs

- 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 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

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

HISTORY ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)

**College of Arts and Humanities
 CNH 415, 407-823-2224**

<http://www.history.cah.ucf.edu/>

Graduate program E-mail: hisgrad@ucf.edu

Undergraduate program E-mail: history@ucf.edu

Chair: Rosalind J. Beiler, 407-823-2225

Graduate Program Director: 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 toward 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 director
- 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

Accelerated Undergraduate-Graduate Programs

Undergraduate Requirements

1. UCF General Education Program (36 hrs)

(See the history major in the Catalog for track specific GEP requirements)

2. Common Program Prerequisites (0 hrs)

AMH 2010* U. S. History: 1492-1877 GEP
AMH 2020* U. S. History: 1877-Present GEP

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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
Students may substitute nine hours of 5000- or 6000-level course work for 3000- or 4000-level courses

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

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 director.

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 312, 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 the Catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Industrial Engineering major in the Catalog for the CPP requirements)
See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Courses Required for the Industrial Engineering Core (17 hrs)

(See Industrial Engineering major in the 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.

Accelerated Undergraduate-Graduate Programs

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 3373	Principles of Electrical Engrng	3 hrs

4. Courses Required for the Major (43 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. Graduate courses (*) used to complete the Accelerated BS to MS will vary depending on the MS track the student chooses. Courses will be chosen in consultation with the graduate advisor.

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
EIN 4517	Systems 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 5306	Operations Research	3 hrs
ESI 5531	Discrete Simulation	3 hrs

5. Approved 5000 or 6000 level Technical Elective (5 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.

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

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

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 the Catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Mechanical Engineering major in the Catalog for the CPP requirements)

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EML 3034C	Modeling Methods in MMAE	3 hrs
EML 3303C	Mechanical Engr. 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
EML 3990	ME Career/Academic Faculty Advising I	0 hrs
EML 4991	ME Career/Academic Faculty Advising II	0 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	2 hrs
EML 4221C	Mechanical Systems Exp. Tech.	2 hrs
	Approved Electives	9 hrs

Accelerated Undergraduate-Graduate Programs

b. Mechanical Systems Option

EML 4304C	Thermo-fluids Measurements	2 hrs
EML 3262	Kinematics of Mechanisms	3 hrs
EGM 3601L	Solid Mechanics Lab	2 hrs
EML 4221C	Mechanical Systems Exp. Tech.	2 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 II	3 hrs
or 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.

Total Semester Hours Required (B.S.M.E.) 128 hrs

8. 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.

9. 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 146 hrs
(B.S.M.E./M.S.M.E., M.S.M.S.E., or M.S.A.E.)

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

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

MOLECULAR BIOLOGY AND MICROBIOLOGY - UCF/USF Accelerated Medical School Program (B.S.)

College of Medicine

Burnett School of Biomedical Sciences

HPA2 335, 407-823-5932

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

Chair: P.E. Kolattukudy

Students seeking admission to University of South Florida 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.
- Grades below a C- (1.75) in the life sciences will not be accepted for students who decelerate.

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 SPC 1603H 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

*See Transfer Notes for possible substitutes

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

Accelerated Undergraduate-Graduate Programs

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
<i>or</i>		
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 <i>or</i>	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 Microbiology B.S. (minimum)		11 hrs

6. Departmental Exit Requirements

To be eligible for a major in Molecular Biology and Microbiology:

- For decelerated program, the 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.
- For accelerated program the degree is awarded after successful completion of first year USF Medical School program.

7. Electives: none

8. 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

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed at UCF and/or USF

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

Transfer Notes:

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- BSC 2011C*: may be substituted by BSC 3403C
- CHM 2045C**: may be substituted by CHM 2040C, 2041C

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$78 per term
- Part-time Student \$39 per term

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 1921H	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
MCB 3020C	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 1603H	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

*Or equivalent

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

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

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 the posted deadline of the year admission is sought. For application deadlines, please visit <http://www.nursing.ucf.edu/>.
- 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 as a second degree-seeking student.
- Students who have attended the UCF 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.
- All applicants must have a minimum overall GPA of 3.0.
- At least seven seven of the nine required prerequisites

Accelerated Undergraduate-Graduate Programs

(Chemistry and Lab, at least 2 additional courses from Group A and the remainder from Group B) must be completed by the application deadline.

*Chemistry with Lab (required with grade of B- or better)

Group A (grade of B- or better)

- *Microbiology with Lab
- *Anatomy with Lab
- *Physiology with Lab (or A&P I, II)

Group B (grade of C or better)

- *Sociology
- *Psychology
- *Developmental psychology
- *Nutrition
- *Statistics

- A standardized test and predetermined cutoff score will be required for acceptance to the College of Nursing. Information regarding this test can be found at <http://www.nursing.ucf.edu>.
- All applicants must complete a mandatory accelerated second degree program information session, online or in person, prior to submitting the application.
- Graduates are eligible to take the licensing examination for registered nurses (NCLEX-RN). The program is accredited by the Commission of Collegiate Nursing Education (CCNE) 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 an advisor in the College of Nursing Undergraduate Student Services Office 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 College 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	Principles of Statistics	3 hrs
or 2023		
SOW 3104	Assessing Human Development	3 hrs
or DEP 2004	Developmental Psychology	
HUN 3011	Human Nutrition	3 hrs

*A general chemistry course (3 hr) covering organic/inorganic chemistry and a chemistry lab (1 hr).

**May take Anatomy and Physiology I, II sequence of six-eight total credits.

S**** indicates a science prerequisite.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Requirements

(57-62 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 4227	Nursing Care of the Adult II	4 hrs
NUR 4227L	Nursing Care of the Adult II Clinical	3 hrs
NUR 4535	Psychiatric Mental Health Nursing	3 hrs
NUR 4535L	Psychiatric Mental Health Nursing Clinical	2 hrs

NUR 4829	Transition to Professional Practice As a Leader	3 hrs
NUR 4257	Introduction to Critical Care Nursing	3 hrs
NUR 4637	Public Health Nursing	2 hrs
NUR 4637L	Public Health Nursing Clinical	1 hr
NUR 4945L	Nursing Practicum	4 hrs
NUR 4XXX	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 (3 hrs)

**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 (APG) committee to substitute elective requirement

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: none

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

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

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.

Honors

University Honors and Honors in the Major Available

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$50 per term
- Part-time Student \$25 per term

Tentative Course Schedule

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		

Accelerated Undergraduate-Graduate Programs

Spring	13-15 hrs	Summer	13-16 hrs
NUR 4227	4	NUR 4829	3
NUR 4227L	3	NUR 4257	3
NUR 4535	3	NUR 4637	2
NUR 4535L	2	NUR 4637L	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.nursing.ucf.edu/>

Dean: Jean Leuner; Associate Dean Undergraduate: Linda Hennig;
Associate Dean Graduate: Jean Kijek; RN to MSN Coordinator:
Barbara Lange

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 to MSN program. **Separate application** to this *limited access program* must be made. Contact the College of Nursing or visit our Web site at <http://www.nursing.ucf.edu> 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 to 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 Web site 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 AA transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites.
- Students should consult with an advisor in the College of Nursing Undergraduate Student Services Office 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 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 1608	
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
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 nursing 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	Principles of Statistics**	GEP
or 2023		
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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4637	Public Health Nursing	2 hrs
NUR 4604L	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 hrs
NGR 5003L	1 hr
NGR 5638	3 hrs
NGR 5141	3 hrs
NUR 4828	3 hrs

Students in the Clinical Nurse Specialist Track take the following (12 credits) (twelve graduate credits also applied to MSN)

NGR 5003	2 hrs
NGR 5003L	1 hr
NGR 5720	3 hrs
NGR 5141	3 hrs
NGR 5800	3 hrs

Students in the Nursing Leadership & Management Track take the following (12 credits) (nine graduate credits also applied to MSN)

NGR 5720	3 hrs
NGR 5871	3 hrs
NGR 5800	3 hrs
NUR 3065	2 hrs
NUR 3065L	1 hr

Accelerated Undergraduate-Graduate Programs

Upper Division Credit*

NUR 3028	Essentials of Nursing Practice	2 hrs
NUR 3028L	Essentials of Nursing Practice Lab	1 hr
NUR 3755L	Essentials of Nursing Practice Clinical	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 4227	Nursing Care of the Adult II	4 hrs
NUR 4227L	Nursing Care of the Adult II Clinical	3 hrs
NUR 4535	Psychiatric Mental Health Nursing	3 hrs
NUR 4535L	Psychiatric Mental Health Nursing Clinical	2 hrs

*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)

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 upon 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

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term



STATEWIDE ARTICULATED A.S. TO B.S. PROGRAMS

The University offers eight 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 pre-2000 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." or select the appropriate major on the on-line application, designating their desire to participate in the articulation agreement.
5. Students have the option of completing the state approved general education program at a Florida Community College or State University and must request an official transcript with "general education requirements met" on the transcript to be sent to the UCF Registrar prior to

the student's graduating term from the University of Central Florida. Students who chose to complete their general education program at UCF must meet all of UCF's current course requirements. Students may not be transient in their last 30 of 36 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 only 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/>

Director of Regional Campuses Advising: Helen Hill, 407-823-4547

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 main campus in Orlando if necessary. Students have the option of completing the state approved general education program at a Florida Community College or State University and must request an official transcript with "general education requirements met" on the transcript to be sent to the UCF Registrar prior to the student's graduating term from the University of Central Florida. Students who choose to complete their general education program at UCF must meet all of UCF's current course requirements. Students may not be transient in their last 30 of 36 hours at UCF.

If students wish to take an upper division course at the main 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 to guarantee timely completion of all requirements including CLAST, Gordon Rule, Foreign Language Admission and General Education.

1. UCF General Education Program (36 hrs total)

Students will complete their remaining General Education courses after admission to UCF. The remaining courses will be determined in consideration of General Education courses completed as part of the articulated A.S. and will come from the following areas:

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 3011C	Management Information Systems (PR: CGS 1060C or CGS 2100C)	4 hrs
MAR 3023	Marketing	4 hrs
MAN 3302	Essentials of Human Resource Management for Non-business majors	3 hrs
MAN 3354	Employee Training for Non-business Majors	3 hrs
ACG 3082	Accounting for Non-business majors	3 hrs

B. Industrial Operations Track: (21 hrs)

Students are strongly urged to complete STA 2023 within the general education program.

ETI 3116	Applied Quality Assurance	3 hrs
ETI 3671	Technical Economics (PR: MAC 1105)	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 (PR: MAC 1105)	3 hrs

Statewide Articulated A.S. To B.S. Programs

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)
PLA 4700 Professional Ethics and Liability	(3 hrs)

E. 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)	
HSC 4201 Community Health Services	3 hrs
HSA 4180 Organization and Management for Health Agencies	3 hrs
HSA 4191 Health Care Automation (PR: CGS 2100C)	3 hrs
HSC 4500 Epidemiology (PR: STA 2014C or STA 2023)	3 hrs
Choose One:	3 hrs
HSC 4652 Health Law and Ethics or	
HSA 4109 Managed Care or	
HSA 4502 Risk Management or	
HIM 4506C Quality Management or	
HSA 4702 Health Science Research Methods	

F. Information Technology Track:	(21 hrs)
Students are strongly urged to complete STA 2023 within the general education program.	
CET 3010 Introduction to Information Technology (PR: MAC 1105)	3 hrs
CET 2364 System Applications in C (PR: MAC 1105)	3 hrs
CET 3679 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

G. 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 (PR: EEC 3700)	3 hrs
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

- Students have the option of completing the state approved general education program at a Florida Community College or State University and must request an official transcript with "general education requirements met" on the transcript to be sent to the UCF Registrar prior to the student's graduating term from the University of Central Florida. Students who chose to complete their general education program at UCF must meet all of UCF's current course requirements. Students may not be transient in their last 30 of 36 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

CRIMINAL JUSTICE (B.S.)

A.S. to B.S. TRACK

(Completion program only for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies

HPA 311, 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

E-mail: cjadvice@mail.ucf.edu

Undergraduate Program Director: 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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

Statewide Articulated A.S. To B.S. Programs

- 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 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

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET) A.S. to B.S.E.E.T. CONCENTRATION

(Completion program only 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@mail.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 (2.0) 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Engineering Technology Core Requirements (22 hrs)

(C (2.0) 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 2049L or PHY 2054C 4 hrs
- STA 2023 Statistical Methods I 3 hrs

4. Upper Level Required Courses (23 hrs)

(C (2.0) or better grades are required in all courses)

- CET 3198C Digital Systems 3 hrs
- CET 2124 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 4548C Power Systems 4 hrs
- EET 4732C Feedback Control Systems 4 hrs

5. Upper Level Technical Electives (4 hrs)

(C (2.0) or better grades are required in all courses)

Select four hours from the following:

- CET 3145C 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
- EST 3222 Intro to Photonics 3 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$90 per term
- Part-time Student\$45 per term

Statewide Articulated A.S. To B.S. Programs

Junior Year

Fall	13/14 hrs	Spring	16 hrs
MAC 2253 Applied Calc I <i>or</i>	3/4	PHY 2054C/2049 w/ lab	4
MAC 2311 Calc w/Anal Geom I		ETG 3541 Applied Mechanics	3
STA 2023 Statistical Methods I	3	CET 3198C Digital Systems	3
SPC 1608 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	14 hrs	Spring	13 hrs
EET 4548C Power Systems	4	EET 4732C Feedback Control Sys	4
EET 4158C Linear Int Cir	3	ETI 3671 Tech Economic Analysis	3
CET 2124 Microcomputer Tech I	3	ETG 4950C Snr Design Project	3
MAC 2312, 2254 <i>or</i> MAP 3401	4	ENC 3241 Writing Tech Pros	3
Summer	10 hrs		
CET 4333 Comp Org & Design	3		
Upper level elective	4		
CET 4134C Microprocessor Elec II	3		

GENERAL BUSINESS (B.S.B.A.)

A.S. to B.S. TRACK

(Completion program only for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Business Administration

BA2 101, 407-823-2184

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

Not eligible for a double degree with another College of Business Administration major

Faculty Advisor: Undergraduate Student Service, BA2 101, 407-823-2184

Admission Requirements

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 - Preferred: SPC 1608
- 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 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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Core Classes (36 hrs)

First or subsequent semester in the College of Business

Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3375	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403C	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011C	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:

- Must complete all Gordon Rule requirements, prior to admission to this degree.
- 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 4153C	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)

Statewide Articulated A.S. To B.S. Programs

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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$30 per term
- Part-time Student\$15 per term

HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. TRACK

(Completion program only 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. Course work will be comprised of 18 hours of general education and 42 hours of upper division hospitality management course work as determined by an individual plan of study.

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
- See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

3. Hospitality Management Core (27 hrs)

- | | | |
|-------------|--|-------|
| CGS 2100C | 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 4464 | 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 5 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 |
| HFT 4277 | Yacht, Country and City Club Management | 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 that 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 |
| HFT 4614 | Risk Management in Theme Parks | 3 hrs |

Statewide Articulated A.S. To B.S. Programs

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 3323	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 4457	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 3357	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 3384	Golf and Club Enterprises	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)

Total Semester Hours Required 124 hrs

Community 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 Rosen College of Hospitality Management.
- ACG X001 and X011 will substitute for HFT 2401 at UCF.
- Florida public community college students in the A.S. to B.S. track are required to complete an individual plan of study with the College prior to enrolling in their first semester at 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$75 per term
- Part-time Student\$37.50 per term

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK

(Completion program only 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)

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.

A. Communication Foundations	9 hrs
(nine hours completed in AS degree program)	
B. Cultural and Historical Foundations	9 hrs
(3 hrs taken in AS degree program)	
C. Mathematical Foundations	6 hrs
MAC 1105 College Algebra	
STA 2023 Statistical Methods I	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Lower Level Required Courses (33 hrs)

MAD 2104 Foundations of Discrete Math.	3 hrs
Lower level technical courses taken at Community College	30 hrs

3. Information Systems Technology Core Courses (26 hrs) (C 2.0) or better grade required in all courses)

CET 3529 Linux/Unix System Admin and Applications	3 hrs
CET 3010 Intro to Info Technology	3 hrs
STA 2023 Statistical Methods I	GEP
MAC 1105 College Algebra	GEP
MAC 1114 College Trigonometry	3 hrs
ETI 4448 Applied Proj Mgmt	3 hrs
ENC 3241 Writing for the Technical Professional	3 hrs
EET 3085C Electricity & Electronics or	4 hrs
EET 3086 Principles of Electrical Circuits	
CET 3115C Digital Technology	4 hrs
CET 2364 Systems Applications in C	3 hrs

4. Required Technical Courses (21 hrs) (C 2.0) or better grade required in all courses)

CET 4427 Applied Database I	3 hrs
CET 3383 Applied Systems Analysis I	3 hrs
CET 4505 Applied Operating Systems I	3 hrs
CET 3679 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 (12 hrs) (C 2.0) 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
CET 4668 Practice of Information Security	3 hrs
CET 4882 Network Defense Strategies	3 hrs

Statewide Articulated A.S. To B.S. Programs

CET 4884	Security Methods and Practice	3 hrs
CET 4885	Investigative Digital Technology	3 hrs
CET 4889	Security Sensor Tech. and Biometrics	3 hrs
ETG 4950C	Senior Design Project	3 hrs
ISM 3011C	Essentials of Management Information Systems	3 hrs
ISM 4153C	Enterprise Information Systems	3 hrs
ISM 4431	Business Process Analysis	3 hrs
ISM 4154	Enterprise Application Development	3 hrs
ISM 5219	Business Intelligence Systems	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 the 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.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oas.ucf.edu/alc/academic_learning_compacts.htm

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			
Fall	13 hrs	Spring	13 hrs
EET 3085C Elect & Electronics	4	CET 4483 Local Area Network	3
MAC 1114 College Trigonometry	3	CET 3529 Linux/Unix Sys Admin	3
CET 3010 Intro to Info Tech	3	Tech Elective	3
CET 2364 Systems Apps in C	3	CET 3115C Digital Tech	4
Summer	9 hrs		
CET 4333 Comp Org & Design	3		
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 3383 Applied Sys Analysis I	3
CET 3679 Intro to Telephony	3	Tech Elective	3
CET 4748 Wide Area Networks I	3	Tech Elective	3

NURSING (B.S.N.)

E. AS TO BSN TRACK

(Completion program only for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Nursing

HPA 220, 407-823-2744

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

E-mail: ucfnurse@mail.ucf.edu

Dean: Jean Leuner; **Associate Dean Undergraduate:** Linda Hennig;
RN to BSN Coordinator: Barbara Lange

This program is 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 undergraduate 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 December 2000 or later). Individuals who received AS prior to December 2000 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 in each course
- Students should consult with an advisor in the College of Nursing Undergraduate Student Services Office for 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 undergraduate 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+2 hrs)

Students will complete 18 hours of selected General Education courses as part of the articulated AS. The specific courses will be determined in coordination with 18 hours of General Education courses already 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 1608	
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2014C	
D. Social Foundations	6 hrs
1. SYG 2000	
2. PSY 2012	

Statewide Articulated A.S. To B.S. Programs

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 2010C is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

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	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.

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 4828	Leadership, Management and Role Development	3 hrs
NUR 4837	Health Care Issues, Policy, & Econ	3 hrs
NUR 4637	Public Health Nursing	2 hrs
NUR 4604L	Practicum in Community and Public Health Nursing for RNs	4 hrs.

Upper Division Credit* (27 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 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 4227	Nursing Care of the Adult II	4 hrs
NUR 4227L	Nursing Care of the Adult II Clinical	3 hrs
NUR 4535	Psychiatric Mental Health Nursing	3 hrs
NUR 4535L	Psychiatric Mental Health Nursing Clinical	2 hrs

*May be met by validation

4. Upper Division Restricted Elective (6 hrs)

NUR XXXX	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 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 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, Cocoa, Leesburg and Ocala.

The RN to BSN coursework is also offered online. Some on-campus labs and clinical practice may be required. For more information visit <http://www.nursing.ucf.edu>.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oaas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student \$50 per term
- Part-time Student \$25 per term

RADIOLOGIC SCIENCES (B.S.)

A.S. to B.S. TRACK

(Program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs

Department of Health Professions

HPA2 208, 407-823-2747

<http://www.cohpa.ucf.edu/health.pro/radtransfer.cfm>

AS to BS Track Coordinator: Fazal Jameer,

E-mail: fjameer@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 who change to this program must adopt the most current Catalog
- 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

Statewide Articulated A.S. To B.S. Programs

- 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 1608 <i>or</i> SPC 1603	
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 <i>or</i> ECO 2023 <i>or</i> POS 2041	
E. Science Foundations	7 hrs
Select PHY 2053C	
Select BSC 1005 <i>or</i> 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

See "Common Prerequisites" in the Transfer and Transitions Services section for more information.

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 3804L	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 4555	Pathophysiologic Mechanisms	3 hrs
RTE 3814L	ST: Clinical Education II	4 hrs

Senior Level

RTE 4563	Special Radiographic Procedures	2 hrs
RTE 4782	Pathophysiology	2 hrs
RTE 4824L	Clinical Education III	5 hrs
RTE 4573	Advanced Imaging Modalities	3 hrs
RTE 4574	Computed Tomography Protocols	1 hr
RTE 4579	Mag Resonance Imaging Protocols	1 hr
RTE 4834L	Clinical Education IV	6 hrs
RTE 4385	Radiobiology	1 hr
RTE 4846L	Clinical Education V - A	2 hrs
RTE 4844L	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 4854L	Advanced Clinical Practicum	4 hrs

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

4. 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.

5. Electives none

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

- 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)

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:
http://www.oegas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fee

- Full-time Student\$50 per term
- Part-time Student\$25 per term



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 (SCNS). 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. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at <http://scns.fldoe.org>.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have 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 "statewide course 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 on the next page.)

For example, a freshman composition skills course is offered by 55 different postsecondary institutions. Each institution uses "ENC 101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and certain 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 participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine 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.

Example of Course Identifier

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
ENC	1	1	0	1	
English Composition	Lower (Freshman) Level at this institution	Freshman Composition	Freshman Composition Skills	Freshman Composition Skills I	No Laboratory component in this course

Common Course Numbering System

Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include varying topics courses that must be evaluated individually, or applied courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution

- A. Courses not offered by the receiving institution
- B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
- C. Courses in the 900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Practica, Study Abroad, Thesis, and Dissertations.
- D. College preparatory and vocational preparatory courses.
- E. Graduate courses.
- F. Internships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999
- G. Applied courses in the performing arts (Art, Dance, Interior Design, Music and Theatre and skills courses in Criminal Justice are not guaranteed as transferable.

Courses at Nonregionally Accredited Institutions

The Statewide Course Numbering System makes available on its home page (<http://scns.fldoe.org>) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. Elliot Vitte, Associate Dean, Undergraduate Studies, Millican Hall 210, University of Central Florida, 4000 Central Florida Parkway, Orlando, FL 32816, 407-823-2691. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the internet at <http://scns.fldoe.org>.

ABE	Agricultural and Biological Engineering	CEN	Computer Software Engineering
ABT	Arabic Culture in Translation or Translation Skills	CES	Civil Engineering Structures
ABW	Arabic Literature (Writings)	CET	Computer Engineering Technology
ACG	Accounting: General	CGN	Civil Engineering
ACO	Accounting: Occupational/Technical Variable Paced	CGS	Computer General Studies
ACR	HVACR: Heating/Ventilation/AC/Refrigeration: Tech/Trades	CHD	Home Economics: Child Development
ADE	Adult Education	CHI	Chinese
ADV	Advertising	CHM	Chemistry
AEB	Agricultural Economics and Business	CHR	Chiropractic
AEE	Agriculture and Extension Education	CHS	Chemistry - Specialized
AER	Automotive Mechanics	CHT	Chinese Culture in Translation or Translation Skills
AFA	African-American Studies	CHW	Chinese Literature (Writings)
AFH	African History	CIS	Computer Science and Information Systems
AFR	Aerospace Studies	CJB	College Level Application in Criminal Justice
AFS	African Studies	CJC	Corrections
AGE	Agricultural Engineering (Discontinued Effective 2005)	CJD	Criminal Justice Development
AGG	Agriculture - General	CJE	Law Enforcement
AGR	Agronomy	CJJ	Juvenile Justice
AHM	Amharic Language	CJK	Criminal Justice Basic Training (A.A.S or Vocational)
AHT	Amharic Culture in Translation or Translation Skills	CJL	Law & Process
AHW	Amharic Literature (Writings)	CJT	Criminal Justice Technologies
AKA	Akan Language	CLA	Classical and Ancient Studies
AKT	Akan Culture in Translation or Translation Skills	CLP	Clinical Psychology
AKW	Akan Literature (Writings)	CLT	Classical Culture in Translation or Translation Skills
ALS	Agriculture and Life Sciences	CMC	Corporate Media Communication
AMH	American History	CMM	Creek/Muskogee/Mikasuki
AML	American Literature	CNT	Computer Networks
AMS	American Studies	COA	Home Economics: Consumer Affairs
AMT	Aviation Maintenance Technology	COE	Cooperative Education
ANG	Anthropology--Graduate	COM	Communication
ANS	Animal Science	COP	Computer Programming
ANT	Anthropology	COS	Cosmetology
AOM	Agricultural Operations Management	COT	Computing Theory
APA	Applied Accounting	CPO	Comparative Politics
APK	Applied Kinesiology	CPS	Comparative Policy Studies (Multinational)
ARA	Arabic Language	CPT	Cardiopulmonary Technology
ARC	Architecture	CRW	Creative Writing
ARD	Architectural Design	CSP	Cosmetology - Specialized
ARE	Art Education	CST	Comparative Studies
ARH	Art History	CTE	Home Economics: Clothing and Textiles
ARR	Autobody Repair and Refinishing	CTS	Computer Technology and Skills
ART	Art	CVT	Cardiovascular Technology
ARV	Art, Vocational	CWR	Civil Water Resources
ASC	Aviation Science: General	CYP	Community Psychology
ASG	Animal Science: General	CZE	Czech Language
ASH	Asian History	CZT	Czech Culture in Translation or Translation Skills
ASL	American Sign Language	CZW	Czech Literature (Writings)
ASN	Asian Studies	DAA	Dance, Emphasis On Activity
AST	Astronomy	DAE	Dance Education
ATE	Animal Science Technology	DAN	Dance
ATF	Aviation Technology: Flight	DAS	Dairy Science (Discontinued Effective 2005)
ATT	Aviation Technology: Theory	DCP	Design, Construction and Planning
AVM	Aviation Management	DEA	Dental Assisting
AVS	Avionics	DEC	Marketing and Distributive Education
AYM	Aymara Language	DEH	Dental Hygiene
BAN	Commercial Banking (AIB Courses Only)	DEM	Demography
BCA	Building Construction Apprenticeships	DEN	Dentistry
BCC	Basic Clinical Clerkships (Required)	DEP	Developmental Psychology
BCH	Biochemistry (Biophysics)	DES	Dental Support
BCN	Building Construction	DIE	Dietetics
BCT	Building Construction Trades	DIG	Digital Media
BCV	Building Construction: Vocational	DIM	Diesel Mechanics
BME	Biomedical Engineering	DSC	Domestic Security
BMS	Basic Medical Sciences	DTE	Dental Laboratory Technology
BOT	Botany	DUT	Dutch Language
BRC	Banking Related Courses (Not AIB or IFE)	EAB	Experimental Analysis Of Behavior
BSC	Biological Sciences	EAP	English As A Second Language for Academic Purposes
BTE	Business Teacher Education	EAS	Aerospace Engineering
BUL	Business Law	EBD	Education: Emotional/Behavioral Disorder
CAP	Computer Applications	ECH	Engineering: Chemical
CAS	Clinical Audiology and Speech Language Pathology (Disc 8/06)	ECM	Engineering: Computer Math
CAT	Catalan Language	ECO	Economics
CBH	Comparative Psychology and Animal Behavior	ECP	Economic Problems & Policy
CCE	Civil Construction Engineering	ECS	Economic Systems & Development
CCJ	Criminology and Criminal Justice	EDA	Educational Administration
CDA	Computer Design/Architecture	EDE	Education: Elementary
CEG	Civil Geotechnical Engineering	EDF	Education: Foundations and Policy Studies
		EDG	Education: General

Common Course Numbering System

EDH	Education: Higher	FRT	French Culture in Translation or Translation Skills	INR	International Relations
EDM	Education: Middle School	FRW	French Literature (Writings)	INS	International Studies
EDP	Educational Psychology	FSE	Funeral Services	INT	Sign Language Interpreting
EDS	Education Supervision	FSS	Food Service Systems	IPM	Integrated Pest Management
EEC	Education: Early Childhood	FYC	Family, Youth and Community	ISC	Interdisciplinary Sciences
EED	Education: Emotional Disorders	GCO	Golf Course Operations	ISM	Information Systems Management
EEE	Engineering: Electrical and Electronic	GEA	Geography: Regional Areas	ISS	Interdisciplinary Social Sciences
EEL	Engineering: Electrical	GEB	General Business	ITA	Italian Language
EER	Electrical/Electronics Repair	GEO	Geography: Systematic	ITT	Italian Culture in Translation or Translation Skills
EES	Environmental Engineering Science	GER	German	ITW	Italian Literature (Writings)
EET	Electronic Engineering Technology	GET	German Culture in Translation or Translation Skills	JOU	Journalism
EEV	Electrical/Electronic: Vocational	GEW	German Literature (Writings)	JPN	Japanese
EEX	Education: Exceptional Child - Core Competencies	GEY	Gerontology	JPT	Japanese Culture in Translation or Translation Skills
EGC	Counselor Education	GFD	Geophysical Fluid Dynamics	JPW	Japanese Literature (Writings)
EGI	Education: Gifted	GIS	Geography: Information Science	JST	Jewish/Judaic Studies
EGM	Engineering Science	GLS	Graduate Liberal Studies	KOR	Korean Language
EGN	Engineering: General	GLY	Geology	KOT	Korean Culture in Translation or Translation Skills
EGS	Engineering: Support	GMS	Graduate Medical Sciences	KOW	Korean Literature (Writings)
EHD	Education: Hard Of Hearing & Deaf	GMT	Modern Greek Culture in Translation or Translation Skills	LAA	Landscape Architecture
EIA	Education: Industrial Arts	GMW	Modern Greek Literature (Writings)	LAE	Language Arts and English Education
EIN	Industrial Engineering	GRA	Graphic Arts	LAH	Latin American History
EIV	Education: Industrial/Vocational	GRE	Classical Greek (Language Study)	LAS	Latin American Studies
ELD	Education: Specific Learning Disabilities	GRG	Graphic Arts - Graduate-Level	LAT	Latin (Language Study)
ELR	Prefix Discontinued. All Courses Reassigned	GRK	Modern Greek Language	LAW	Law
EMA	Materials Engineering	GRW	Classical Greek Literature (Writings)	LBS	Labor Studies
EMC	Engineering: Mechanical & Chemical	HAI	Haitian Creole Language	LDE	Landscape Design
EME	Education: Technology and Media	HAT	Haitian Culture in Translation or Translation Skills	LDR	Leadership Studies
EML	Engineering: Mechanical	HBR	Modern Hebrew Language	LEI	Leisure
EMR	Education: Mental Retardation	HBT	Modern Hebrew Culture in Translation or Translation Skills	LGL	Lingala Language
EMS	Emergency Medical Services	HCP	Health-Care Providers (Assistants)	LGT	Lingalan Culture in Translation or Translation Skills
ENC	English Composition	HCW	Haitian Creole Literature (Writings)	LGW	Lingalan Literature (Writings)
ENG	English - General	HEB	Ancient Hebrew (Discontinued Effective 2005)	LIN	Linguistics
ENL	English Literature	HEC	Home Economics/Community	LIS	Library and Information Studies
ENS	English For Non-Native Speakers (College Lvl) Disc. Eff. 2005	HEE	Home Economics Education	LIT	Literature
ENT	Entrepreneurship	HEV	Home Economics - Vocational	LNW	Latin Literature (Writings)
ENU	Engineering: Nuclear	HFT	Hospitality Management	MAA	Mathematics - Analysis
ENV	Engineering: Environmental	HHD	Housing & Home Design	MAC	Mathematics - Calculus and Precalculus
ENY	Entomology	HIM	Health Information Management	MAD	Mathematics - Discrete
EOC	Ocean Engineering	HIN	Hindi Language	MAE	Mathematics Education
EPD	Education: Physical & Multiple Disabilities	HIS	General History and Historiography	MAG	Mechanized Agriculture (Discontinued Effective 2005)
EPH	Education: Physical & Multiple Handicapped	HIT	Hindi Culture in Translation or Translation Skills	MAN	Management
EPI	Educator Preparation Institutes	HIW	Hindi Literature (Writings)	MAP	Mathematics Applied
ESC	Earth Science	HLP	Health/Leisure/Physical Education	MAR	Marketing
ESE	Education: Secondary	HME	Home Economics: Home Management and Equipment	MAS	Mathematics - Algebraic Structures
ESI	Industrial/Systems Engineering	HMV	Hospitality Management, Vocational	MAT	Mathematics
ESL	College-Prep English For Non-Native Speakers (Disc. Eff. 2005)	HMW	Modern Hebrew Literature (Writings)	MCB	Microbiology
EST	Electronic Speciality Technology	HNG	Hungarian Language	MCC	Special Topics in Mass Communication
ETC	Engineering Technology: Civil	HNT	Hungarian Culture in Translation or Translation Skills	MDW	Midwifery
ETD	Engineering Technology: Drafting	HNW	Hungarian Literature (Writings)	MEA	Medical Assisting Technology
ETG	Engineering Technology: General	HOE	Home Economics: General	MEL	Medical Science Electives
ETI	Engineering Technology: Industrial	HOS	Horticultural Sciences	MEM	Medieval and Early Modern Studies
ETM	Engineering Technology: Mechanical	HPS	History and Philosophy of Science	MET	Meteorology
ETN	Electroneurodiagnostics	HRD	Human Resources Development (Discontinued Effective 2005)	MGF	Mathematics - General and Finite
EUH	European History	HSA	Health Services Administration	MHF	Mathematics - History and Foundations
EUS	European Studies	HSC	Health Sciences	MHS	Mental Health Services
EVI	Education: Visually Impaired-Blind	HUM	Humanities	MIS	Military Science
EVR	Environmental Studies	HUN	Human Nutrition	MKA	Marketing Applications
EVS	Environmental Science	HUS	Human Services	MLS	Medical Laboratory Science
EVT	Education: Vocational/Technical	ICM	International Construction Management	MLT	Medical Laboratory Technology
EXP	Experimental Psychology	ICW	Icelandic Literature	MMC	Mass Media Communication
FAD	Home Economics: Family Development	IDC	Interdisciplinary Computing	MNA	Management: Applied
FAM	Fashion Modeling	IDD	Interdisciplinary Design	MOB	Molecular Biophysics
FAS	Fishery & Aquacultural Science	IDH	Interdisciplinary Honors	MOM	Motorcycle Mechanics
FES	Fire and Emergency Services	IDN	Indonesian Language	MRE	Medical Records (Discontinued Effective 2003)
FFP	Fire Fighting & Protection	IDS	Interdisciplinary Studies	MSL	Military Science and Leadership
FIL	Film	IDT	Indonesian Culture in Translation or Translation Skills	MSS	Massage
FIN	Finance	IDW	Indonesian Literature (Writings)	MTB	Mathematics - Technical and Business
FLE	Foreign Language Education	IEA	Industrial Education Applied	MTE	Marine Technology and Nautical Science
FNR	Forestry & Natural Resources	IHS	Interdisciplinary Health Sciences	MTG	Mathematics - Topology and Geometry
FOL	Foreign Languages	IND	Interior Design	MTS	Medical Transcription Science
FOR	Forestry	INP	Industrial and Applied Psychology	MUC	Music: Composition
FOS	Food Science			MUE	Music Education
FOT	Foreign Languages (In Translation)			MUG	Music: Conducting
FOW	Foreign Languages, Comparative Literature (Writings)			MUH	Music: History/Musicology
FRC	Fruit Crops			MUL	Music Literature
FRE	French Language			MUM	Music: Commercial/Management/Administration

Common Course Numbering System

MUN	Music Ensembles	PSB	Psychobiology	SWT	Swahili Culture in Translation or Translation Skills
MUO	Music: Opera/Musical Theatre	PSC	Physical Sciences	SWW	Swahili Literature (Writings)
MUR	Music: Church	PSE	Poultry Science (Discontinued Effective 2005)	SYA	Sociological Analysis
MUS	Music	PSG	Polysomnography	SYD	Sociology Of Demography/Area Studies/Sociological Minorities
MUT	Music: Theory	PSY	Psychology	SYG	Sociology, General
MUY	Music: Therapy	PTA	Precision Technology Apprenticeships	SYO	Social Organization
MVB	Applied Music: Brasses	PTN	Pharmacy Technician	SYP	Social Processes
MVH	Historical Instruments	PUP	Public Policy	TAR	Technical Architecture
MVJ	Applied Music: Jazz	PUR	Public Relations	TAX	Taxation
MVK	Applied Music: Keyboard	QMB	Quantitative Methods in Business	TCN	Telecommunications
MVO	Applied Music: Other	RAT	Radiation Therapy	TDR	Technical Drafting
MVP	Applied Music: Percussion	RCS	Rehabilitation Counseling Services	THE	Theatre Studies and General Resources
MVS	Applied Music: Strings	REA	Reading	TPA	Theatre Production and Administration
MVV	Applied Music: Voice	RED	Reading Education	TPP	Theatre Performance and Performance Training
MVW	Applied Music: Woodwinds	REE	Real Estate	TRA	Transportation and Logistics
NEM	Nematology	REL	Religion	TSL	Teaching English As A Second Language
NGR	Nursing, Graduate	RET	Respiratory Care	TTE	Transportation Engineering
NMT	Nuclear Medicine Technology	RHT	Radiation Health/Radiation Protection Technology	TUR	Turkish Language
NSC	Naval Science	RMI	Risk Management & Insurance	TUT	Turkish Culture in Translation or Translation Skills
NUR	Nursing, Generic Undergraduate	ROT	Reactor Operator Technology	TUW	Turkish Literature (Writings)
OCA	Office Computer Applications	RSD	Rehabilitation Science Doctorate	URP	Urban and Regional Planning
OCB	Biological Oceanography	RTE	Radiologic Technology	URS	Urban and Regional Studies
OCC	Chemical Oceanography	RTT	Radio/Television Technology	VAR	Variable-Paced Architecture
OCE	General Oceanography	RTV	Radio-Television	VEC	Vegetable Crops
OCG	Geological Oceanography	RUS	Russian Language	VEM	Veterinary Medicine Professional
OCF	Physical Oceanography	RUT	Russian Culture in Translation or Translation Skills	VIC	Visual Communication
OFT	Occupational Office Technology (Discontinued Effective 2005)	RUW	Russian Literature (Writings)	VME	Veterinary Medicine Graduate
OPT	Ophthalmic Technology/Vision Care	SAL	South Asian Languages	VPI	Vocational Preparatory Instruction
ORH	Ornamental Horticulture	SBM	Small Business Mgmt: Occupational/Technical Variable Paced	VTN	Vietnamese Language
ORI	Oral Interpretation	SCA	Scandinavian Languages	VTT	Vietnamese Culture in Translation or Translation Skills
ORV	Ornamental Horticulture (Variable Paced)	SCC	Security	VTW	Vietnamese Literature (Writings)
OSE	Optical Science and Engineering	SCE	Science Education	WCL	Ward Clerk
OST	Office Systems Technology	SCT	Scandinavian Culture in Translation or Translation Skills	WDS	Weed Science
OTA	Office Technology Applications	SCW	Serbo-Croatian Literature (Writings)	WIS	Wildlife Science
OTH	Occupational Therapy	SCY	Security	WOH	World History
PAD	Public Administration	SDS	Student Development Services	WOL	Wolof Language
PAF	Public Affairs	SEC	Serbo-Croatian Language	WOT	Wolof Culture in Translation or Translation Skills
PAS	Physician Assistant	SED	Speech Education	WOW	Wolof Literature (Writings)
PAX	Peace Studies	SER	Small Engine Mechanics	WST	Women's Studies
PAZ	Parks and Zoos	SHO	Shona Language	XHO	Xhosa Language
PCB	Process Biology (Cell/Molecular/Ecology/Genetics/Physiology)	SHT	Shona Culture in Translation or Translation Skills	XHT	Xhosa Culture in Translation or Translation Skills
PCO	Psychology For Counseling	SLA	Second Language Acquisition/Instructional Technology	XHW	Xhosa Literature (Writings)
PEL	Phys. Edu. Acts - (Gen.)-Object Centrld, Land	SLL	Slavic Languages	YOR	Yoruba Language
PEM	Phys. Edu. Acts. (Gen.)-Perfomr. Centrld., Land (Revised)	SLS	Student Life Skills (Learning)	YOT	Yoruba Culture in Translation or Translation Skills
PEN	Physical Edu. Activities (Gen.)-Water, Snow, Ice	SLT	Slavic Culture in Translation or Translation Skills	YRW	Yoruba Literature (Writings)
PEO	Phys. Edu. Acts. (Profl.)-Object Centrld., Land	SLW	Slavic Literature (Writings)	ZOO	Zoology
PEP	Phys. Edu. Acts. (Profl.)-Perfmr. Centrld., Land	SMT	Science or Mathematics Teaching		
PEQ	Phys. Edu. Acts. (Profl.)-Water, Snow, Ice	SNW	Scandinavian Literature		
PET	Physical Education Theory	SON	Sonography		
PGY	Photography	SOP	Social Psychology		
PHA	Pharmacy	SOS	Soil Science		
PHC	Public Health Concentration	SOW	Social Work		
PHH	Philosophy, History Of	SPA	Speech Pathology and Audiology		
PHI	Philosophy	SPB	Sports Business		
PHM	Philosophy Of Man and Society	SPC	Speech Communication (4/97)		
PHP	Philosophers and Schools	SPM	Sports Management		
PHT	Physical Therapy	SPN	Spanish Language		
PHY	Physics	SPS	School Psychology		
PHZ	Physics (Continued)	SPT	Spanish Culture in Translation or Translation Skills		
PKG	Packaging Sciences	SPW	Spanish Literature (Writings)		
PLA	Paralegal/Legal Assistant/Legal Administration	SRK	Sanskrit Language		
PLP	Plant Pathology	SRT	Sanskrit Culture in Translation or Translation Skills		
PLS	Plant Science	SRW	Sanskrit Literature (Writings)		
PLT	Polish Culture in Translation or Translation Skills	SSA	Sub-Sahara African Languages		
PLW	Polish Literature	SSE	Social Studies Education		
PMA	Pest Management	SST	Sub-Sahara African Culture in Translation or Translation Skills		
PMT	Precision Metals Technology	SSW	Sub-Saharan African Literature		
POL	Polish Language	STA	Statistics		
POR	Portuguese Language	STS	Surgical Technology Studies		
POS	Political Science	SUR	Surveying & Related Areas		
POT	Political Theory	SVL	Savings and Loan (IFE Courses Only)		
POW	Portuguese Literature (Writings)	SWA	Swahili Language		
PPE	Personality	SWS	Soil and Water Sciences		
PRN	Practical Nursing				
PRO	Prosthetics/Orthotics				
PRT	Portuguese Culture in Translation or Translation Skills				

Common Course Numbering System

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	1906, 2905, 3905, 4906, 5907
Directed Independent Research	4912, 5917
Special Undergraduate Research	IDS 3913, 4914
Special Topics/Seminars	1931, 2930, 3930, 4932, 5937
*Internship, Practicums, Clinical Prac	3940, 4941, 5944
Cooperative Education ³	1949, 2949, 3949, 4949, 5949
Honors Undergraduate Thesis	3970H, 4970H
Honors Directed Reading ¹	4903H
Honors Directed Reading ²	4904H
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:

ART 2500C CAH-ART 3(2,4)

ART 2500C is offered by the College of Arts and Humanities (CAH), in the Department of Art (ART), carries 3 hours of credit but requires 6 contact hours which consist of 2 hours in class and 4 hours laboratory or field work.

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, BHC = Burnett Honors College, CAH = Arts & Humanities, COM = Medicine, CON = Nursing, COS = Sciences, ECS = Engineering and Computer Science, ED = Education, HM = Hospitality Management, HPA = Health and Public Affairs, and UGST = Undergraduate Studies/Interdisciplinary Studies. Department indicators are listed below (by college):

College/School	Department	Abbreviation
BA	Accounting	ACCT
BA	Business	BUS
BA	Economics	ECON
BA	Finance	FIN
BA	Management	MAN
BA	Management Information System	MIS
BA	Marketing	MAR
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
CAH	Music	MUSIC
CAH	Philosophy	PHIL
CAH	Theatre	THEA
CAH	Women's Studies	WOM
COM	Molecular Biology & Microbiology	M&M
CON	Nursing	NURS
COS	Biology	BIOL
COS	Chemistry	CHEM
COS	Communication	COMM
COS	Mathematics	MATH
COS	Physics	PHYS
COS	Political Science	POLS
COS	Psychology	PSYCH
COS	Radio/TV	R/TV
COS	Sociology & Anthropology	SOC/AN
COS	Statistics	STAT
ECS	Air Force ROTC-Aerospace	AFROTC
ECS	Civil & Environmental	CEE
ECS	Electrical Eng & Computer Sci	EECS
ECS	Engineering	ENGR
ECS	Engineering Technology	ENT
ECS	Industrial & Management	IEMS
ECS	Mechanical/Materials/Aerospace	MMAE
ECS	Military Science-Army ROTC	AROTC
ED	Child, Family & Comm Services	CFCS
ED	Education	EDU
ED	Ed Research, Tech & Lead	ERTL
ED	Educational Foundations	EDF
ED	Educational Studies	ES
ED	Human Services/Wellness	HSW
ED	Instructional Programs	IP
ED	Teaching & Learning Principles	TLP
HM	Hospitality Management	HOSP
HPA	Communicative Disorders	COMD
HPA	Criminal Justice & Legal Studies	CJLS
HPA	Health & Public Affairs	HPA
HPA	Health Information Management	HIM
HPA	Health Professions	HP
HPA	Public Administration	PUB
HPA	Social Work	SOW
UGST	Undergrad/Interdisc Studies	INTERDISC

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>AFA 3104 CAH-AAS 3(3,0) The Black Intellectual Experience: PR: AFA 3102. Interdisciplinary examination of major texts, theories, practices and philosophic foundations in Black intellectual and cultural history. <i>Occasional.</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>AFA 3428 CAH-AAS 3(3,0) Malcolm X, Black Nationalism, and Internationalism: PR: AMH 2020. Comprehensive analysis of the social/political thought of Malcolm X and its impact on African political struggles. <i>Fall.</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 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 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 4803 BA-ACCT 3(3,0) Contemporary Issues in Accounting: PR: ACG 3141, ACG 3361, ACG 4401C, TAX 4001. A study of accounting that integrates knowledge gained in previous accounting coursework through critical analysis, practical research assignments, and capstone cases. <i>Fall, Spring.</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 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>ADE 4382 ED-TLP 3(3,0) Teaching Adult Learners in Technical Programs: PR: EVT 3365 or CI. Planning for and teaching of adult learners in formal & informal technical settings. <i>Fall.</i></p>	<p>AFA 5930 CAH-AAS 3(3,0) Topics in African American Studies: PR: Graduate standing 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 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>ADV 3008 COS-COMM 3(3,0) Principles of Advertising: PR: SPC 1608. Overview of the field of advertising: purposes, techniques, the role of agencies, advertisers and the media. <i>Fall, Spring.</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 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>ADV 4101 COS-COMM 3(3,0) Advertising Copywriting: PR: AD/PR majors only and ADV 3008 and PUR 4000. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad 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>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>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>AFH 5259 CAH-HIST 3(3,0) Colloquium in African History: PR: Graduate standing or C.I. Readings on selected topics in African History. May be used in the degree program a maximum of 3 times. <i>Odd Fall.</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>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>AFH 5806 CAH-HIST 3(3,0) The Historiography of Slavery in Africa: PR: Graduate standing or senior standing or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa. <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>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>AFR 1101C ECS-AFROTC 1(1,2) 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>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>AFR 1111C ECS-AFROTC 1(1,2) 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>

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AFR 2130C ECS-AFROTC 1(1,2) 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>	AMH 3425 CAH-HIST 3(3,0) Sunbelt Florida: PR: AMH 2010 and AMH 2020 or C.I. History of Florida from post-war industrialization to the present. <i>Occasional.</i>	AMH 4110 CAH-HIST 3(3,0) Colonial America, 1607-1763: PR: AMH 2010 and AMH 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>
AFR 2131C ECS-AFROTC 1(1,2) 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>	AMH 3441 CAH-HIST 3(3,0) 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>	AMH 4112 CAH-HIST 3(3,0) 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>
AFR 3220C ECS-AFROTC 3(3,2) 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>	AMH 3442 CAH-HIST 3(3,0) History of the Frontier: Western America: PR: AMH 2010 and AMH 2020, or C.I. The development of the trans-Mississippi West and its impact upon American history. <i>Occasional.</i>	AMH 4130 CAH-HIST 3(3,0) The Age of the American Revolution, 1763-1789: PR: AMH 2010 and AMH 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>
AFR 3230C ECS-AFROTC 3(3,2) 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>	AMH 3541 CAH-HIST 3(3,0) 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>	AMH 4140 CAH-HIST 3(3,0) Jeffersonian America: PR: AMH 2010 and AMH 2020, or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812. <i>Occasional.</i>
AFR 4201C ECS-AFROTC 3(3,2) 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>	AMH 3547 CAH-HIST 3(3,0) 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>	AMH 4160 CAH-HIST 3(3,0) Jacksonian America: PR: AMH 2010 and AMH 2020, or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict. <i>Occasional.</i>
AFR 4210C ECS-AFROTC 3(3,2) 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>	AMH 3558 CAH-HIST 3(3,0) 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>	AMH 4170 CAH-HIST 3(3,0) Civil War and Reconstruction: PR: AMH 2010 and AMH 2020, or C.I. Reconstruction, and impact of industrialism. <i>Occasional.</i>
AMH 2010 CAH-HIST 3(3,0) U.S. History: 1492-1877: Survey of U.S. History from 1492-1877. <i>Fall, Spring.</i>	AMH 3561 CAH-HIST 3(3,0) 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>	AMH 4201 CAH-HIST 3(3,0) The Gilded Age and Progressivism: PR: AMH 2010 and AMH 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>
AMH 2010H CAH-HIST 3(3,0) Honors U.S. History: 1492-1877: PR: Consent of Honors. Survey of U.S. History from 1492-1877. <i>Fall, Spring.</i>	AMH 3562 CAH-HIST 3(3,0) 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>	AMH 4231 CAH-HIST 3(3,0) United States History: 1914-1939: PR: AMH 2010 and AMH 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>
AMH 2020 CAH-HIST 3(3,0) 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>	AMH 3571 CAH-HIST 3(3,0) 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>	AMH 4270 CAH-HIST 3(3,0) United States History: 1939-1960: PR: AMH 2010 and AMH 2020, or C.I. World War II, the Cold War and America in the fifties. <i>Occasional.</i>
AMH 2020H CAH-HIST 3(3,0) 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>	AMH 3572 CAH-HIST 3(3,0) 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>	AMH 4273 CAH-HIST 3(3,0) 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>
AMH 3370 CAH-HIST 3(3,0) 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>	AMH 3586 CAH-HIST 3(3,0) 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>	AMH 4311 CAH-HIST 3(3,0) American Culture I: PR: AMH 2010 and AMH 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>
AMH 3402 CAH-HIST 3(3,0) 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>	AMH 3610 CAH-HIST 3(3,0) 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>	AMH 4313 CAH-HIST 3(3,0) American Culture II: PR: AMH 2010 and AMH 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>
AMH 3403 CAH-HIST 3(3,0) History of the South Since 1865: PR: AMH 2010 and AMH 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>	AMH 3611 CAH-HIST 3(3,0) 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>	AMH 4375 CAH-HIST 3(3,0) Technology and US Culture: PR: AMH 2010 or AMH 2020. Examines the history of technology in the United States, its impact on society, and society's impact on technological development. <i>Even Spring.</i>
AMH 3422 CAH-HIST 3(3,0) 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>	AMH 3800 CAH-HIST 3(3,0) 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>	

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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. *Occasional.*

AMH 4510 CAH-HIST 3(3,0)
Rise of the United States to World Power, 1776-1914: PR: AMH 2010 and AMH 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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Spring.*

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. *Even Fall.*

AMH 4680 CAH-HIST 3(3,0)
Women in American Science: PR: AMH 2010 or AMH 2020. Examines how American society uses Western ideas about sex and gender to define women's roles in science and their influence on their fields. *Even Fall.*

AMH 5116 CAH-HIST 3(3,0)
Colloquium in U.S. Colonial History: PR: Graduate standing or senior standing or C.I. Reading and discussion of the literature on selected topics in colonial American history. *Occasional.*

AMH 5137 CAH-HIST 3(3,0)
Colloquium in U.S. Revolutionary Period: PR: Graduate standing or senior standing or C.I. Reading and class discussion of the literature on selected topics in the Revolutionary Era, 1763-1789. *Occasional.*

AMH 5149 CAH-HIST 3(3,0)
Colloquium in Early U.S. History, 1789-1815: PR: Graduate standing or senior standing or C.I. Reading and class discussion of the literature on selected topics of the early national period. *Occasional.*

AMH 5169 CAH-HIST 3(3,0)
Colloquium in Age of Jackson: PR: Graduate standing or senior standing or C.I. Intensive reading and class discussion on selected topics of the Jacksonian age. *Occasional.*

AMH 5176 CAH-HIST 3(3,0)
Colloquium in Civil War and Reconstruction: PR: Graduate standing or senior standing or C.I. Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era. *Occasional.*

AMH 5219 CAH-HIST 3(3,0)
Colloquium in Late 19th Century U.S.: PR: Graduate standing or senior standing or C.I. Reading and class discussion of the literature on selected topics of late 19th century U.S. *Occasional.*

AMH 5296 CAH-HIST 3(3,0)
Colloquium in 20th Century U.S.: PR: Graduate standing or senior standing or C.I. Reading and class discussion on selected topics in 20th-century U.S. May be used in the degree program a maximum of 4 times. *Occasional.*

AMH 5378 CAH-HIST 3(3,0)
History of Technology: PR: Graduate standing or C.I. Introduces the historiography of technology's role in historical events, and society's role in shaping technology. *Occasional.*

AMH 5391 CAH-HIST 3(3,0)
Colloquium in U.S. Cultural History: PR: Graduate standing or senior standing or C.I. Students will read and discuss a common or diverse body of the significant literature in the field. *Occasional.*

AMH 5406 CAH-HIST 3(3,0)
Colloquium in American South: PR: Graduate standing or senior standing or C.I. Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present. *Occasional.*

AMH 5446 CAH-HIST 3(3,0)
Colloquium in U.S. Frontier: PR: Graduate standing or senior standing or C.I. Reading and class discussion of the literature on selected topics of frontier history. *Occasional.*

AMH 5515 CAH-HIST 3(3,0)
Colloquium in U.S. Diplomatic History: PR: Graduate standing 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. *Occasional.*

AMH 5566 CAH-HIST 3(3,0)
Colloquium: Women in American History: PR: Graduate standing 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. *Occasional.*

AMH 5937 CAH-HIST 3(3,0)
AP American History: PR: Graduate standing 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. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

AML 3286 CAH-ENG 3(3,0)
Early American Women's Words: PR: ENC 1102. Women's writings in the Americas from the 17th century through the mid-19th century. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

AML 3643 CAH-ENG 3(3,0)
Contemporary Native American Prose and Poetry: PR: ENC 1101, ENC 1102. Native American prose fiction and poetry since Momaday's *House Made of Dawn* (1968) and American Indian prose and poetry since that time. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

AML 4300 CAH-ENG 3(3,0)
Major American Authors: PR: Grade of C (2.0) or better required in ENG 3014. A comprehensive study of selected major American literary figures. May be repeated for credit only when course content is different. *Fall, Spring.*

AML 4304 CAH-ENG 3(3,0)
Whitman and His Heirs: PR: Grade of C (2.0) or better required in ENG 3014. The work of American poet, Walt Whitman (1819-1892), and his influence on modern American poetry. *Occasional.*

AML 4321 CAH-ENG 3(3,0)
Modern American Literature: PR: Grade of C (2.0) or better required in ENG 3014. Major writers of modern American literature. *Occasional.*

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AML 4630 CAH-ENG 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. *Occasional.*

AML 5076 CAH-ENG 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. *Occasional.*

AML 5156 CAH-ENG 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. *Occasional.*

ANG 5100 COS-ANTHRO 3(3,0)
Archaeological Sciences: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Field and laboratory methods routinely used in archeology and forensic archeology, including instrumentation. *Occasional.*

ANG 5165 COS-ANTHRO 3(3,0)
Maya Field Research: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Practical application of method and theory during primary infield research in the Maya area. *Spring.*

ANG 5166 COS-ANTHRO 3(3,0)
Problems in Maya Studies: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies. *Occasional.*

ANG 5167 COS-ANTHRO 3(3,0)
Maya Hieroglyphs: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture. *Occasional.*

ANG 5228 COS-ANTHRO 3(3,0)
Maya Iconography: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features. *Odd Spring.*

ANG 5272 COS-ANTHRO 3(3,0)
Culture, Power and Development: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Origins and contemporary ramifications of underdevelopment and disempowerment in the world system from an anthropological perspective. *Occasional.*

ANG 5307 COS-ANTHRO 3(3,0)
Peoples and Cultures of Latin America: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Latin American culture focusing on indigenous history, colonialism, traditional peoples, social change, and modernization. *Occasional.*

ANG 5341 COS-ANTHRO 3(3,0)
Caribbean Cultures: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Historical and contemporary overview of the societies and cultures of the Caribbean region, including effects of colonization by the Dutch, Spanish, British, and French. *Occasional.*

ANG 5437 COS-ANTHRO 3(3,0)
Anthropology of Tourism: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. *Occasional.*

ANG 5467 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. *Occasional.*

ANG 5620 COS-ANTHRO 3(3,0)
Language and Culture: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Language as an integral part of human culture and behavior, focusing on cross cultural issues that affect cultural competency. *Spring.*

ANG 5622 COS-ANTHRO 3(3,0)
Language, Culture and Pedagogy: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Linguistic and cultural issues in the learning needs of students from culturally diverse populations. *Occasional.*

ANG 5738 COS-ANTHRO 3(3,0)
Advanced Medical Anthropology: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Advanced topics in ethnography of medical traditions and anthropological approaches to the study of health and disease. *Odd Fall.*

ANG 5741 COS-ANTHRO 3(3,0)
Mortuary Archaeology: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Funerary customs and human remains: basic data collection, skeletal analysis, and comparative study of mortuary ritual-ancient and modern. *Occasional.*

ANG 5742 COS-ANTHRO 3(3,0)
Problems in Forensic Anthropology: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Current issues and topics in forensic anthropology. *Occasional.*

ANT 2000 COS-ANTHRO 3(3,0)
General Anthropology: An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology. *Fall, Spring.*

ANT 2000H COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 2100 COS-ANTHRO 3(3,0)
Archaeology and the Rise of Human Culture: The evolution of human society from foraging and hunting groups to the earliest cities and states. *Fall, Spring.*

ANT 2410 COS-ANTHRO 3(3,0)
Cultural Anthropology: An introduction to human diversity as exemplified among various cultures and ethnic groups. *Fall, Spring.*

ANT 2511 COS-ANTHRO 3(3,0)
The Human Species: Human biological variation in an evolutionary perspective. *Fall, Spring.*

ANT 2511H COS-ANTHRO 3(3,0)
Honors The Human Species: PR: Permission of Honors. Human biological variation in an evolutionary perspective. *Occasional.*

ANT 3106 COS-ANTHRO 3(3,0)
Archaeology and Popular Culture: PR: ANT 2000 or C.I. How the ancient past and archaeology appear in popular culture and are manipulated and used by modern societies. *Occasional.*

ANT 3115 COS-ANTHRO 3(3,0)
Archaeological Method and Theory: A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports. *Even Fall.*

ANT 3142 COS-ANTHRO 3(3,0)
Old World Prehistory: A comparative study of social evolution in Africa, Europe, and Asia from the earliest humans to the beginnings of recorded history. *Occasional.*

ANT 3145 COS-ANTHRO 3(3,0)
Archaeology of Complex Societies: Theoretical perspectives on ancient hierarchies of power. *Fall.*

ANT 3158 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. *Occasional.*

ANT 3160 COS-ANTHRO 3(3,0)
Pre-Contact Americas: PR: ANT 2000 or C.I. Archaeological developments of North, Central, and South America from the hemisphere's initial peopling through the advent of European cultures. *Occasional.*

ANT 3161 COS-ANTHRO 3(3,0)
Archaeology of Mexico: PR: ANT 2000 or C.I. Achievements of civilizations in Mexico (Olmec, Zapotec, Aztec) as well as lesser known archaeological cultures. *Occasional.*

ANT 3163 COS-ANTHRO 3(3,0)
Mesoamerican Archaeology: An introduction to the prehistory of Mexico. Guatemala and upper Central America from earliest times through the Spanish conquest. *Occasional.*

ANT 3164 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 3165 COS-ANTHRO 3(3,0)
Archaeology of South America: PR: ANT 2000 or C.I. Civilizations of South America from the last ten thousand years, focusing primarily on civilizations of the Andes and other areas. *Occasional.*

ANT 3168 COS-ANTHRO 3(3,0)
Maya Archaeology: An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field. *Occasional.*

ANT 3173 COS-ANTHRO 3(3,0)
Archaeology of Sex: PR: ANT 2000 or C.I. Cross-cultural concepts of sex, sexuality, and sexual intercourse throughout human history from an archaeological perspective. *Occasional.*

ANT 3177 COS-ANTHRO 3(3,0)
Archaeology of Caribbean Piracy: PR: ANT 2000 or C.I. The profession of piracy in the context of Caribbean prehistory and archaeology. *Occasional.*

ANT 3212 COS-ANTHRO 3(3,0)
Peoples of the World: A comparative study of religion, family, politics, philosophy, and other elements of socio-cultural organization of pre-literate societies. *Fall, Spring.*

ANT 3241 COS-ANTHRO 3(3,0)
Magic, Ritual, and Belief: Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena. *Fall, Spring.*

ANT 3245 COS-ANTHRO 3(3,0)
Native American Religions: PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples. *Occasional.*

ANT 3262 COS-ANTHRO 3(3,0)
Rural Society: An introduction to rural society in the U.S. and abroad. Problems of third world development in the rural sector. *Occasional.*

ANT 3273 COS-ANTHRO 3(3,0)
Law and Culture: An introduction to law as an organizing force in society, including a study of primitive forms of law and social control. *Occasional.*

ANT 3302 COS-ANTHRO 3(3,0)
Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective. *Fall, Spring.*

ANT 3311 COS-ANTHRO 3(3,0)
Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast. *Occasional.*

ANT 3312 COS-ANTHRO 3(3,0)
Ethnology of North American Indians: A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition. *Even Spring.*

ANT 3313 COS-ANTHRO 3(3,0)
Indians of North America High Plains: A study of the social and cultural history of the Indians of the North American High Plains. *Occasional.*

ANT 3314 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 3316 COS-ANTHRO 3(3,0)
Black/Seminole Relations: PR: 2000 level GEP Social Science course or CI. Relationships forged between peoples of African origin and descent and the Seminole Indians. *Occasional.*

ANT 3318 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 3319 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 3320 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, Havasupai). *Occasional.*

ANT 3330 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. *Occasional.*

ANT 3344 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 3358 COS-ANTHRO 3(3,0)
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). *Occasional.*

ANT 3362 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. *Occasional.*

ANT 3363 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. *Occasional.*

ANT 3393 COS-ANTHRO 3(3,0)
American Indian Literature and Culture in Florida: PR: ENC 1102. Literature about the Apalachee, Timucua, Seminole, and Calusa tribes in Florida, examining various issues through oral tales and legends, treaties, archival sources. *Occasional.*

ANT 3450 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. *Occasional.*

ANT 3541 COS-ANTHRO 3(3,0)
Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments. *Spring.*

ANT 3550 COS-ANTHRO 3(3,0)
Primatology: PR: ANT 2511 or C.I. Study of species from the Order Primates, including their morphology, ecology, behavior, and geographic distribution. *Occasional.*

ANT 3640 COS-ANTHRO 3(3,0)
Language and Culture: PR: Sophomore standing. The study of language in a non-western setting; language and behavior; language and perception. *Spring.*

ANT 3701 COS-ANTHRO 3(3,0)
Applied Anthropology: PR: ANT 2000 or CI. Application of anthropological methods to current human problems such as the environment, migration, globalization and health. *Occasional.*

ANT 3949 COS-ANTHRO 0(0,8)
Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. Graded S/U. May be repeated. *Occasional.*

ANT 4013 COS-ANTHRO 3(3,0)
Anthropological Perspectives on Fast Food: PR: ANT 2000 or C.I. Anthropological research on corporate fast food in diverse cultural settings. *Occasional.*

ANT 4034 COS-ANTHRO 3(3,0)
History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology. *Spring.*

ANT 4101 COS-ANTHRO 3(3,0)
Archaeological Sciences: PR: ANT 2511, or ANT 2100, or C.I. Methods and instrumentation routinely used in archaeology and forensic archaeology. *Spring.*

ANT 4144 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4153 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4180C COS-ANTHRO 3(1,4)
Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit. *Spring.*

ANT 4184 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4266 COS-ANTHRO 3(3,0)
Economic Anthropology: Production, Consumption, and Exchange: PR: ANT 2000, ECO 2013, PSY 2012, or SYG 2000. Issues, methods, and concepts of economic anthropology. *Occasional.*

ANT 4308 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4332 COS-ANTHRO 3(3,0)
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. *Odd Fall, Spring.*

ANT 4340 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4352 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4354 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4408 COS-ANTHRO 3(3,0)
Culture, Disease, and Healing: PR: Any 2000 level Anthropology course. The role of culture in shaping the experience and perceptions of health, sickness, and well-being in a variety of contexts. *Odd Spring.*

ANT 4438 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4462 COS-ANTHRO 3(3,0)
Medical Anthropology: PR: ANT 2000 or ANT 2511 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications. *Occasional.*

ANT 4467 COS-ANTHRO 3(3,0)
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. *Occasional.*

ANT 4516 COS-ANTHRO 3(3,0)
Human Biological Diversity: PR: ANT 2511 or BSC 2010C or C.I. Human biological variation and adaptation. *Occasional.*

ANT 4521C COS-ANTHRO 3(3,0)
Forensic Anthropology: PR: ANT 2511 or C.I. The study of human skeletal remains in relation to a legal context. *Occasional.*

UCF Courses and Descriptions

ANT 4525C	COS-ANTHRO	4(3,1)	ARE 2011	ED-CFCS	3(3,0)	ARE 5359	ED-TLP	4(4,0)
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> .			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			Teaching Art K-12: PR: Admission to MA in Art Education, graduate standing or C.I. Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12. <i>Occasional</i> . M&S fee: \$5.00		
ANT 4528C	COS-ANTHRO	5(3,3)	ARE 3944	CAH-ART	3(2,3)	ARE 5454	ED-TLP	3(3,0)
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> .			Community Arts Practicum: PR: C.I. A supervised experience for students to facilitate art programming in a variety of community settings. <i>Occasional</i> .			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		
ANT 4560	COS-ANTHRO	3(3,0)	ARE 4250	ED-TLP	3(3,0)	ARE 5648	ED-TLP	3(3,0)
Anthropological Perspectives on Human Growth: PR: ANT 2000 or C.I. Evolutionary, ecological, historical and cultural perspectives on human growth, maturation, and aging. <i>Odd Fall</i> .			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> .			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> .		
ANT 4586	COS-ANTHRO	3(3,0)	ARE 4262	CAH-ART	3(3,0)	ARH 2050	CAH-ART	3(3,0)
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> .			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> .			History of Western Art I: Painting, sculpture and architecture from the Prehistoric Era through the Renaissance. <i>Occasional</i> .		
ANT 4702	COS-ANTHRO	3(3,0)	ARE 4313	ED-TLP	1(1,0)	ARH 2050H	CAH-ART	3(3,0)
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> .			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			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> .		
ANT 4802	COS-ANTHRO	3(3,0)	ARE 4351	ED-TLP	3(2,1)	ARH 2051	CAH-ART	3(3,0)
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> .			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			History of Western Art II: Painting, sculpture and architecture from the Baroque through the 20th century. <i>Fall, Spring</i> .		
ANT 4824	COS-ANTHRO	9(9,0)	ARE 4352	ED-TLP	3(2,1)	ARH 2051H	CAH-ART	3(3,0)
Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork. <i>Spring</i> .			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			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> .		
APA 3471	BA-ACCT	3(3,0)	ARE 4356	ED-TLP	3(3,1)	ARH 2500	CAH-ART	3(3,0)
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> .			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			History of Non-Western Art: Major visual arts in various non-Western cultures. <i>Fall, Spring</i> .		
ARA 1120C	CAH-LANG	4(3,1)	ARE 4453	ED-TLP	3(3,0)	ARH 3454	CAH-ART	3(3,0)
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> .			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			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> .		
ARA 1120H	CAH-LANG	4(4,1)	ARE 4945	CAH-ART	12(0,12)	ARH 3471	CAH-ART	3(3,0)
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> .			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> .			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> .		
ARA 1121C	CAH-LANG	4(3,1)	ARE 5251	ED-TLP	3(2,1)	ARH 3520	CAH-ART	3(3,0)
Elementary Arabic Language and Civilization II: PR: ARA 1120C or C.I. Continuation of ARA 1120C. <i>Spring</i> .			Art for Exceptionalities: Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped. <i>Occasional</i> .			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> .		
ARA 1121H	CAH-LANG	4(4,1)	ARE 5255	ED-TLP	3(2,1)	ARH 3570	CAH-ART	3(3,0)
Honors Elementary Arabic Language and Civilization II: PR: Permission of Honors. Continuation of ARA 1120H. Honors level content. <i>Occasional</i> .			Arts in Recreation: Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas. <i>Occasional</i> .			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> .		
ARA 2200	CAH-LANG	3(3,1)				ARH 3610	CAH-ART	3(3,0)
Intermediate Arabic Language and Civilization I: PR: ARA 1121C or C.I. Development of language skills and cultural knowledge at the intermediate level. <i>Occasional</i> .						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> .		
ARA 2201	CAH-LANG	3(3,0)				ARH 3631	CAH-AAS	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> .						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> .		

UCF Courses and Descriptions

<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>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>	<p>ART 2300C CAH-ART 3(2,4) Drawing Fundamentals I: PR: 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</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>ARH 4352 CAH-ART 3(3,0) Italian Baroque Art: PR: ARH 2050 and ARH 2051. Examines the art and architecture of the Baroque period in Italy from 1600-1750. <i>Occasional.</i></p>	<p>ART 2300H CAH-ART 3(2,4) 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</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>ARH 4430 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></p>	<p>ART 2301C CAH-ART 3(2,4) Drawing Fundamentals II: PR: ART 2300C 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</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>ARH 4450 CAH-ART 3(3,0) 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></p>	<p>ART 2394 CAH-ART 3(3,0) Drawing: Computer as a Medium: Object drawing, using the computer and drawing stylus as a medium. <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>ARH 4545 CAH-ART 3(3,0) 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></p>	<p>ART 2400C CAH-ART 3(2,4) 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></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>ARH 4655 CAH-ART 3(3,0) Meso American Art: PR: Junior Standing or C.I. A survey of the art of Mexico and Central America, from the Pre-Colombia, through the Spanish Colonial, to the 20th century. <i>Occasional.</i></p>	<p>ART 2500C CAH-ART 3(2,4) 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</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>ARH 4800 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></p>	<p>ART 2701C CAH-ART 3(2,4) Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2300C, ART 2301C. <i>Odd Fall.</i> M&S fee: \$35.00</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>ARH 4892 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></p>	<p>ART 2754C CAH-ART 3(2,4) 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</p>
<p>ARH 3728 CAH-ART 3(3,0) History of Illustration: PR: ARH 2050 and ARH 2051. Western illustration from ancient and medieval manuscripts through nineteenth century cartoon, caricature, book, magazine illustration, and advertising. <i>Occasional.</i></p>	<p>ARH 5897 CAH-ART 3(3,0) 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></p>	<p>ART 2820 CAH-ART 3(3,0) 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></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>ART 2130C 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</p>	<p>ART 2820H CAH-ART 3(3,0) 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></p>
<p>ARH 4130 CAH-ART 3(3,0) Greek Art and Architecture: PR: ARH 2050 and ARH 2051. Examines the art and architecture of ancient Greece from the Bronze Age through the end of the Hellenistic period. <i>Occasional.</i></p>	<p>ART 2160C ED-TLP 3(2,3) Metals, Woods, Leathers and Stones: Processes and techniques of production. <i>Occasional.</i></p>	<p>ART 3161 CAH-ART 3(3,0) 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></p>
<p>ARH 4150 CAH-ART 3(3,0) Roman Art and Architecture: PR: ARH 2050 and ARH 2051. Examines Roman art and architecture from its Etruscan origins through Constantine. <i>Occasional.</i></p>	<p>ART 2201C CAH-ART 3(2,4) Design Fundamentals-Two Dimensional: PR: C.I. 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</p>	<p>ART 3170C CAH-ART 3(2,4) Book Binding: PR: ART 2201C, ART 2203C, and ART 2820. Basic book binding techniques, methods, structures, and production of books. <i>Occasional.</i> M&S fee: \$44.00</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>ART 2201H CAH-ART 3(2,4) 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></p>	<p>ART 3171C CAH-ART 3(2,4) Materials for Artist Books: PR: ART 2201C, ART 2203C, and ART 3170C. Production of materials used for an artist in the creation of books. <i>Occasional.</i> M&S fee: \$32.00</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>ART 2203C CAH-ART 3(2,4) Design Fundamentals-Three Dimensional: PR: 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</p>	

UCF Courses and Descriptions

ART 3175C CAH-ART 3(2,4) Advanced Issues in Contemporary Book Arts: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and ART 3170C. Drawing, printmaking, and painting combined with guided research at the Orlando Museum of Arts culminating in a handbound Visual Book. <i>Occasional</i> . M&S fee: \$44.00	ART 3833C CAH-ART 3(4,2) 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 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: \$45.00
ART 3176C CAH-ART 3(2,4) The Illuminated Book: PR: ART 2201C, ART 2300C, ART 2300C, ART 2301C, and ART 3170C. The creation of visual, illuminated responses to language from stories, fables, poetry, and books using a variety of media. <i>Occasional</i> . M&S fee: \$45.00	ART 3950 CAH-ART 0(0,0) Portfolio Review: PR: ARH 2050, ARH 2051, ART 2820, ART 2201C, ART 2203C, ART 2300C, and ART 2301C. Determines competencies in studio foundation work. Successful completion required to enroll in upper division studio classes. Graded S/U. <i>Fall, Spring</i> .	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
ART 3332C CAH-ART 3(2,4) 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> .	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	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
ART 3433C CAH-ART 3(2,4) 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> .	ART 4172C CAH-ART 3(2,4) Book Repair and Restoration: PR: ART 2201C, ART 2203C, and ART 3170C. Mending, repairing, and rebinding books from the Library and Special Collections. <i>Occasional</i> .	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
ART 3504C CAH-ART 3(2,4) 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	ART 4173C CAH-ART 3(2,4) The Artist Book: PR: ART 2201C and ART 2203C. Definition of book from traditional hand-made to contemporary artist book. Redefining the elements, structure and content of books and the binding and printing methods in book production. <i>Occasional</i> . M&S fee: \$25.00	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
ART 3616C CAH-ART 3(3,0) 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	ART 4174C CAH-ART 3(2,4) 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>Occasional</i> . M&S fee: \$23.00	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
ART 3618C CAH-ART 3(3,0) 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> .	ART 4177C CAH-ART 3(2,4) Commercial Book Design and Publishing: PR: ART 2820 and Junior standing or C.I. Analysis of art and design elements and their interpretation from a historical perspective. <i>Occasional</i> .	ART 4945L CAH-ART 6(0,6) Advanced Design Lab: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. An interdisciplinary practicum where students design and develop visual solutions for real world clients in partnership with industry. <i>Occasional</i> .
ART 3643C CAH-ART 3(2,4) Digital Effects & Compositing: PR: Animation major and FIL 3720C. 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 4226C CAH-ART 3(3,3) Post Production for Animators: PR: FIL 3734C. 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> .	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> .
ART 3709C CAH-ART 3(2,4) Intermediate Sculpture: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and ART 2701C. Examines the concepts of three-dimensional forms. <i>Fall, Spring</i> .	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> .	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
ART 3737C CAH-ART 3(2,4) 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>Occasional</i> .	ART 4402C CAH-ART 3(2,4) Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, 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	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> .
ART 3760C CAH-ART 3(2,4) 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 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	ART 5280C CAH-ART 3(3,3) Serial Content and 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> . M&S fee: \$45.00
ART 3764C CAH-ART 3(2,4) 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 4634C CAH-ART 3(3,1) Web Art: PR: ART 2820 or C.I. The Web as a medium for art. <i>Occasional</i> .	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> . M&S fee: \$45.00
ART 3833C CAH-ART 3(2,4) Honors Processes and Ideas in Art: PR: Junior Standing and Consent of Honors. Generation of new insights concerning artistic expression with an emphasis on the individual creation of visual art objects. With Honors content. <i>Occasional</i> .	ART 4644C CAH-ART 3(2,4) 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>Occasional</i> .	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> . M&S fee: \$45.00

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ART 5694 CAH-ART 3(3,0)
Crosscultural Electronic Art and 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 "arts electronica" into the present. *Spring.*

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. *Spring.* M&S fee: \$45.00

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. *Spring.*

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. *Fall.* M&S fee: \$45.00

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. *Occasional.*

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. *Fall.* M&S fee: \$45.00

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. *Fall, Spring.* M&S fee: \$45.00

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

ASH 5408 CAH-HIST 3(3,0)
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. *Occasional.*

ASH 5485 CAH-HIST 3(3,0)
U.S. China Relations: PR: Graduate standing or C.I. An in-depth study of the significant relations between China and the United States since the 18th century. *Even Fall.*

ASL 2140 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.*

ASL 2150 HPA-COM SC&DIS 4(4,0)
Intermediate American Sign Language: PR: ASL 2140. Expansion of ASL vocabulary with increased development of knowledge concerning Deaf culture. *Fall, Spring.*

ASL 2510 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.*

ASL 3444 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.*

ASL 4161C HPA-COM SC&DIS 4(3,1)
American Sign Language III: PR: ASL 2150. Conversation. Emphasis on refining fluency receptively and expressively. Practicum with the deaf community. *Occasional.*

ASL 4201 HPA-COM SC&DIS 4(4,0)
American Sign Language IV: PR: ASL 4161C 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.*

ASL 4301 HPA-COM SC&DIS 3(3,0)
Structure of American Sign Language: PR: ASL 2140 and ASL 2150 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.*

ASL 4435 HPA-COM SC&DIS 3(3,0)
Fingerspelling: PR: ASL 2140 and ASL 2150 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels. *Occasional.*

ASL 4700 HPA-COM SC&DIS 3(3,0)
Literature of Signed Languages: PR: ASL 2510. 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.*

AST 2002 COS-PHYS 3(3,0)
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. *Fall, Spring.*

AST 2002H COS-PHYS 3(3,0)
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. *Occasional.*

AST 2002L COS-PHYS 1(0,3)
Astronomy Lab: CR: AST 2002. Laboratory experiments covering selected topics in astronomy related to AST 2002. *Occasional.* M&S fee: \$9.00

AST 2037 COS-PHYS 3(3,0)
Life in the Universe: A thought provoking journey through solar system environments and extrasolar planets to establish the probability of life on other planets in our solar system and beyond. *Occasional.*

AST 2720L COS-PHYS 1(0,2)
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. *Fall, Spring.*

AST 3110 COS-PHYS 3(3,0)
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. *Even Fall.*

AST 3211 COS-PHYS 3(3,0)
Stellar Astrophysics: PR: AST 2002, PHY 2053C. The physics and dynamics of stars, including star formation and stellar evolution. *Occasional.*

AST 3402 COS-PHYS 3(3,0)
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. *Odd Fall.*

AST 3722C COS-PHYS 3(3,0)
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. *Even Spring.*

AST 4142 COS-PHYS 3(3,0)
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. *Occasional.*

AST 4152 COS-PHYS 3(3,0)
Planetary Geophysics: PR: AST 2002, PHY 2053C, and Senior standing, or C.I. Physics of planetary evolution, planetary interiors, and planetary surface processes. *Even Fall.*

AST 4501 COS-PHYS 3(3,0)
Celestial Mechanics: PR: PHY 2048, AST 2002. The orbital motions of celestial bodies, including orbit calculation, perturbation theory, and Hohmann transfer orbits. *Occasional.*

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AST 4700 COS-PHYS 3(3,0) Experimental Methods in Astronomy: PR: AST 2002, PHY 2048, and Senior standing, or C.I. Experimental design and experimental techniques in astronomy and astrophysics; spherical astronomy; physics of telescopes and of common astronomical detectors; astronomical quantification and interpretation of light. <i>Even Spring.</i>	BOT 3018C COS-BIOL 3(1,2) 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	BOT 5485C COS-BIOL 3(2,3) 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 4762 COS-PHYS 3(3,0) Astronomical Data Analysis: PR: MAC 2313, and an upper level course in astronomy or planetary science, or C.I. Astronomical data formation and acquisition, detector physics, measurement extraction, error analysis, modeling, computer programming, statistics, interpretation, and written and oral presentation of results. <i>Odd Fall.</i>	BOT 3152C COS-BIOL 3(1,4) 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>	BSC 1005 COS-BIOL 3(3,0) 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 5154 COS-PHYS 3(3,0) Advanced Planetary Geophysics: PR: Admission to Physics MS or PhD or C.I. The physics of planetary evolution, planetary interiors, and planetary surface processes. <i>Even Fall.</i>	BOT 3800 COS-BIOL 3(3,0) Ethnobotany: PR: BSC 2011C or C.I. Historical and modern uses of plants economically important in various cultures. <i>Spring.</i>	BSC 1005H COS-BIOL 3(3,0) 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 5165 COS-PHYS 3(3,0) 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>	BOT 3820C COS-BIOL 3(2,1) 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	BSC 1005L COS-BIOL 1(0,2) Biological Principles Laboratory: CR: BSC 1005. The laboratory to accompany BSC 1005. <i>Fall, Spring.</i> M&S fee: \$15.00
AST 5263 COS-PHYS 3(3,0) Advanced Observational Astronomy: PR: Graduate standing in the Physics department or C.I. Experimental design and experimental techniques in astrophysics; spherical astronomy; physics of telescopes and of common astronomical detectors; error analysis. <i>Even Spring.</i>	BOT 4156C COS-BIOL 4(2,6) 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	BSC 1050 COS-BIOL 3(3,0) 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 5334 COS-PHYS 3(3,0) Extrasolar Planets and Brown Dwarfs: PR: Admission to Physics M.S. or Physics Ph.D., or C.I. Substellar-mass objects, their formation, evolution, dynamics, detection, and environments. <i>Odd Spring.</i>	BOT 4223C COS-BIOL 4(3,3) 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	BSC 1050H COS-BIOL 3(1,4) 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 5765 COS-PHYS 3(3,0) Advanced Astronomical Data Analysis: PR: MAC 2313, a 3000-level or higher course in astronomy or planetary science, or C.I. Advanced astronomical data formation and acquisition, detector physics, measurement extraction, error analysis, modeling, computer programming, statistics, interpretation, and written and oral presentation of results. <i>Occasional.</i>	BOT 4303C COS-BIOL 5(3,6) 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	BSC 1050L COS-BIOL 1(0,2) Biology and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050. <i>Occasional.</i> M&S fee: \$15.00
BCH 4053 COS-CHEM 3(3,0) 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>	BOT 4434C COM-M&M 4(3,1) General Mycology: PR: BSC 2010C, MCB 3020C or BSC 2011C. This course is a survey of the Kingdom Fungi, covering the major topics of fungal diversity, structure, genetics, physiology, practical applications and pathogenicity. <i>Occasional.</i>	BSC 2010C COS-BIOL 4(3,2) 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
BCH 4053H COS-CHEM 3(3,0) 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>	BOT 4503 COS-BIOL 3(3,0) Plant Physiology: PR: PCB 3023 or C.I. A Study of mechanisms used by plants to cope with the environment. <i>Occasional.</i>	BSC 2010H COS-BIOL 4(3,3) 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
BCH 4054 COS-CHEM 3(3,0) Biochemistry II: PR: BCH 4053. Continuation of BCH 4053. <i>Spring.</i>	BOT 4503L COS-BIOL 1(0,3) Plant Physiology laboratory: CR: BOT 4503. The laboratory to accompany BOT 4503. <i>Occasional.</i> M&S fee: \$15.00	BSC 2011C COS-BIOL 4(3,3) 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 4103L COS-CHEM 2(0,6) 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	BOT 4686C COS-BIOL 4(3,3) 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>	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. <i>Occasional.</i>
BME 5572 ECS-ECE 3(3,0) Biomedical Nanotechnology: PR: EEE 3350 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>	BOT 4713C COS-BIOL 5(3,6) 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	BSC 2420 COM-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. <i>Occasional.</i>

UCF Courses and Descriptions

BSC 3403C COM-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 COM-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 COM-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. *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. Graded S/U. May be repeated for credit. *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 4861L COS-BIOL 3(0,3)
SL Sustainability: Socially & Economically Viable Environmental Protection: PR: BSC 2010C or C.I. A service-learning course utilizing an interdisciplinary approach to developing models and implementing programs designed to result in environmental sustainability. *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 5316 COS-BIOL 3(3,0)
Marine Conservation Biology: PR: BSC 4312C Marine Biology, graduate standing, or C.I. Examine human impacts in marine ecosystems and how humans can become better stewards of these habitats. *Odd Spring*.

BSC 5332 COS-BIOL 3(3,0)
Invasion Biology: PR: PCB 3044 or C.I. The three stages of biological invasion (introduction, establishment and spread) as well as impacts on native species and ecosystems. *Even Spring*.

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 COM-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 biomaterial 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*.

BSC 5821 COS-BIOL 4(4,0)
Biogeography: PR: Graduate standing or C.I. Study of geographic variation in nature, ranging from past to present and from genes to ecosystems. *Occasional*. M&S fee: \$15.00

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 4053 ECS-CS 3(3,0)
AI for Game Programming: PR: CS Foundation Exam or EEL 4851C or C.I. Surveys cutting-edge AI techniques for video games and board games and contrasts them with more traditional approaches. *Spring*.

CAP 4104 ECS-CS 3(3,0)
Human and Technology Interaction: PR: COP 3330 and COP 3502C. Perceptual, cognitive, affective, social, organizational, commercial, and cultural factors. Disciplines, techniques and methodologies. Web, mobiles, and wearables. Embodied conversational agents. Elderly, disabled and special needs. *Fall*.

CAP 4453 ECS-CS 3(3,0)
Robot Vision: PR: COP 3503C and MAC 2312, or C.I. Perspective and orthographic projections: the processing of edges, regions, motion, shading, texture, object detection, recognition, and machine learning. *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 5055 ECS-CS 3(3,0)
AI for Game Programming: PR: CS Foundation Exam or EEL 4851C or C.I. Surveys cutting-edge AI techniques for video games and board games and contrasts them with more traditional approaches. *Spring*.

CAP 5066 ECS-CS 3(3,0)
Web Application Authoring Tools: PR: Graduate standing and/or approval of the Director of the Software Engineering Certificate Program. A survey of available tools for creating and maintaining Web sites, and methodologies for: determining which tool is best suited for a particular application environment. *Fall*.

CAP 5100 ECS-CS 3(3,0)
Human-Computer Interface Design: PR: COP 4331C, graduate standing and/or approval of the Director of the Software Engineering Certificate Program. Focuses on dynamics of human-computer interaction. Provides a comprehensive overview of HCI design as a software discipline. Features a user-centered approach to Web-based application design. *Fall*.

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 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*.

UCF Courses and Descriptions

CAP 5512 ECS-CS 3(3,0) Evolutionary Computation: PR: CAP 4630 or C.I. This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms. <i>Spring.</i>	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>	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>
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. <i>Occasional.</i>	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>	CCJ 4129 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>
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. <i>Fall.</i>	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>	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>
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. <i>Spring.</i>	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>	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>
CBH 3003 COS-PSYCH 3(3,0) Comparative Psychology: PR: PSY 2012. A study of comparative behaviors of lower animals. <i>Occasional.</i>	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>	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>
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. <i>Fall, Spring.</i>	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>	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>
CCE 4004 ECS-CEE 3(3,0) Construction Methods: PR: CES 4100C. Construction methods for civil and structural systems, design of temporary structures, safety, and building codes. <i>Spring.</i>	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>	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>
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, and risk management. <i>Fall.</i>	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>	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>
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, process design, and discrete event simulation. <i>Spring.</i>	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>	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>
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, leadership, and control. <i>Fall, Spring.</i>	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>	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>
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>	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>	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>
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>	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>	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>
	CCJ 4054 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>	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>

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. *Occasional.*

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. *Fall.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

CCJ 5675 HPA-CJ/LS 3(3,0)
Human Rights and 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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CDA 4150H ECS-CS 4(3,1)
Honors Computer Architecture: PR: Consent of Honors and COP 3402 and CDA 3103C. Basic processor design, hardwired and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. With Honors level content. *Occasional.*

CDA 5106 ECS-CS 3(3,0)
Advanced Computer Architecture: PR: EEL 4768C. Modern processor design, instruction-level parallelism, thread-level parallelism, data-level parallelism, memory hierarchy, and I/O. *Fall, Spring.*

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. *Occasional.*

CDA 5215 ECS-CS 3(3,0)
Architecture and Design of VLSI: PR: EEL 4768C. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system. *Occasional.*

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. *Occasional.*

CDA 5532 ECS-CS 3(3,0)
Network-Centric Computing: PR: Graduate standing. Concepts in network-centric computing and process coordination in information grids. *Occasional.*

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. *Occasional.*

CEG 4011C ECS-CEE 4(3,2)
Geotechnical Engineering I: PR: EGN 3331 with a grade of "C" (2.0) or better and CWR 3201. Engineering properties and classification of soils. Design considerations for compaction, seepage, consolidation, and settlement analysis. *Fall, Spring.* M&S fee: \$30.00

CEG 4801C ECS-CEE 3(2,2)
Geotechnical Engineering Design: PR: CEG 4011C. Project course on design of foundations and other soil structures using geotechnical design methodologies. *Fall, Spring.* M&S fee: \$15.00

CEG 4812 ECS-CEE 1(1,0)
Historical Developments in Civil Engineering: Seminar covering major historical developments in civil engineering. *Occasional.*

CEG 5015 ECS-CEE 3(3,0)
Geotechnical Engineering II: PR: CEG 4011C. Continuation of CEG 011C with emphasis on shear strength and design factors for earth pressures, bearing capacity, and slope stability. *Occasional.*

CEG 5700 ECS-CEE 3(3,0)
Geo-Environmental Engineering: PR: CEG 4011C. Geotechnical applications to environmental problems, groundwater flow, soil contamination and groundwater contaminate transport, geosynthetics and stability of landfill design, control of contaminated sites. *Occasional.*

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. *Occasional.*

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. *Spring.*

CEN 5077 ECS-CS 3(3,0)
Web Application Testing: PR: Graduate standing and/or approval of the Director of the Software Engineering Certificate Program. Test design strategies, patterns and tools. Metrics. Client-server and wireless applications testing. Automated testing. Quality assurance. Performance, security, and usability analysis. Cross site scripting tests. *Occasional.*

CEN 5326 ECS-CS 3(3,0)
Web Server Configuration and Maintenance: PR: COP 3502C, CNT 3004, graduate standing and/or approval of the Director of the Software Engineering Certificate Program. Offers a comprehensive overview of the tools and techniques needed to succeed as a Web Server Administrator, including the tasks they are expected to perform. *Occasional.*

CES 4100C ECS-CEE 4(3,3)
Structural Analysis I and Lab: PR: EGN 3331 with a grade of "C" (2.0) or better. 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. *Fall, Spring.* M&S fee: \$21.00

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. *Occasional.*

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. *Fall.*

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. *Spring.* M&S fee: \$15.00

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. *Spring.*

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. *Fall.* M&S fee: \$15.00

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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<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 4333 ECS-ENT 3(3,0) Computer Organization and Design: PR: CET 3115C. Basic computer architecture and system design. An introduction to memory, processor, Bus and I/O organization. <i>Occasional.</i></p>	<p>CET 4748 ECS-ENT 3(3,0) Wide Area Networks I: PR: CET 3679 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>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 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 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 2124 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 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 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 2364 ECS-ENT 3(3,0) Systems Applications in C/C++: PR: MAC 1105 or C.I. Use of C language in control of system processes, DOS and BIOS interrupts, and interfacing with assembly language. Introduction to programming techniques and the C/C++ programming languages. <i>Fall, Spring.</i></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 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 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 4469C ECS-ENT 3(2,2) Applied Infobases: PR: ETI 3651C, CET 2124 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 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 3115C 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 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 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 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 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>
<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 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 5012 ECS-ENT 3(3,0) Information and Communications Infrastructure: PR: Graduate standing or C.I. This course provides an overview of information systems in the technology world. Topics include hardware, software, databases and related technologies, and telecommunications systems. <i>Fall.</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>CGN 3501C ECS-CEE 3(2,3) Civil Engineering Materials: PR: EGN 3331 with a grade of "C" (2.0) or better, CHM 2046. The characterization of materials used in civil engineering works to include concrete, bituminous, polymers and composite materials. <i>Fall, Spring.</i> M&S fee: \$30.00</p>
<p>CET 3679 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>CGN 4300 ECS-CEE 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></p>
<p>CET 4134C ECS-ENT 3(2,4) Microprocessor Electronics II: PR: Digital Circuits I or C.I. 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 2364, MAC 1105. Fundamentals of computer security technology, including cryptography, authentication, digital signatures, and network security tools and applications. <i>Fall.</i></p>	<p>CGN 4600 ECS-CEE 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></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 FPGSs. <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>CGN 4808C ECS-CEE 3(2,2) 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>Fall, Spring.</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>	

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CGN 5320C ECS-CEE 3(2,2)
Geographic Information systems: Programming theory and application of Geographic Information Systems to Civil Engineering projects. *Occasional.*

CGN 5504C ECS-CEE 3(2,2)
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. *Occasional.*

CGN 5506C ECS-CEE 3(2,2)
Asphalt Concrete Mix Design: PR: CEG 4011C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation. *Occasional.*

CGS 1060C ECS-CS 3(2,2)
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. *Fall, Spring.* M&S fee: \$15.00

CGS 1060H ECS-CS 3(2,2)
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. *Occasional.* M&S fee: \$15.00

CGS 2100C ECS-CS 3(2,1)
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. *Fall, Spring.* M&S fee: \$15.00

CGS 2545C ECS-CS 3(2,1)
Database Concepts: PR: CGS 1060C or equivalent. Entity-relation model, relational database managements systems, normal forms, performance or databases, report generation. *Fall, Spring.*

CGS 2585C ECS-CS 3(2,1)
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. *Occasional.*

CGS 3175 ECS-CS 3(3,0)
Internet Applications: PR: CGS 1060C. HTML coding, using images, sound and animation, advanced text formatting, forms and CGS scripts, introduction to javascript. *Fall, Spring.*

CGS 3269 ECS-CS 3(3,0)
Computer Architecture Concepts: PR: CGS 1060C. CPU organization, current computer architectures, network file servers. *Fall, Spring.*

CGS 3763 ECS-CS 3(3,0)
Operating System Concepts: PR: CGS 1060C. System calls, concept of processes, CPU scheduling, security issues, client server paradigms, and computer supported workgroups. *Occasional.*

CGS 4144 ECS-CS 3(3,0)
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. *Occasional.*

CGS 5131 ECS-CS 3(3,0)
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. *Fall.*

CGS 5132 ECS-CS 3(3,0)
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. *Spring.*

CHI 1120C CAH-LANG 4(3,1)
Elementary Chinese Language and Civilization I: Designed to initiate the student to the major language skills: listening, speaking, reading and writing. *Fall.*

CHI 1120H CAH-LANG 4(4,0)
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. *Occasional.*

CHI 1121C CAH-LANG 4(3,1)
Elementary Chinese Language and Civilization II: PR: CHI 1120C or equivalent. Continuation of CHI 1120C. *Spring.*

CHI 1121H CAH-LANG 4(4,0)
Honors Elementary Chinese Language and Civilization II: PR: Permission of Honors. Continuation of CHI 1121H. *Occasional.*

CHI 2200 CAH-LANG 3(3,0)
Intermediate Chinese I: PR: CHI 1121C or equivalent or C.I. Development of Chinese language skills at the intermediate level. *Fall, Spring.*

CHI 2201 CAH-LANG 3(3,0)
Intermediate Chinese II: PR: CHI 2200 (Intermediate Chinese I). Continuation of CHI 2200 with emphasis on Chinese cultures. *Fall, Spring.*

CHM 1020 COS-CHEM 3(3,0)
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. *Fall, Spring.*

CHM 1032 COS-CHEM 3(3,0)
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. *Fall, Spring.*

CHM 1032L COS-CHEM 1(0,3)
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. IMPORTANT: Attendance of the first laboratory session dealing with safety procedures is mandatory: students who do not attend must immediately call the Chemistry Department, and may be dropped from the class. *Fall, Spring.* M&S fee: \$45.00

CHM 2040C COS-CHEM 3(2,1)
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. *Fall.*

CHM 2041C COS-CHEM 3(2,1)
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. *Spring.*

CHM 2045C COS-CHEM 4(3,1)
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. *Fall, Spring.* M&S fee: \$25.00

CHM 2045H COS-CHEM 4(3,3)
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. *Fall, Spring.* M&S fee: \$25.00

CHM 2046 COS-CHEM 3(3,0)
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. *Fall, Spring.*

CHM 2046H COS-CHEM 4(3,3)
Honors Chemistry Fundamentals II: PR: CHM 2045H and permission of Honors. Same as CHM 2046 and CHM 2046L with honors-level content. *Spring.* M&S fee: \$35.00

CHM 2046L COS-CHEM 1(0,3)
Chemistry Fundamentals Laboratory: CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry. IMPORTANT: Attendance of the first laboratory session dealing with safety procedures is mandatory: students who do not attend must immediately call the Chemistry Department, and may be dropped from the class. *Fall, Spring.* M&S fee: \$45.00

CHM 2205 COS-CHEM 5(5,0)
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. *Spring.*

CHM 2210 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. *Fall, Spring.*

CHM 2211 COS-CHEM 3(3,0)
Organic Chemistry II: PR: CHM 2210. Continuation of CHM 2210. *Fall, Spring.*

CHM 2211L COS-CHEM 2(0,6)
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. IMPORTANT: Attendance of the first laboratory session dealing with safety procedures is mandatory: students who do not attend must immediately call the Chemistry Department, and may be dropped from the class. *Fall, Spring.* M&S fee: \$45.00

CHM 3120 COS-CHEM 3(3,0)
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. *Fall, Spring.*

CHM 3120L COS-CHEM 1(0,3)
Analytical Chemistry Laboratory: PR: CHM 2046, CHM 2046L, and PR: or CR: CHM 3120. Experimental exercise of quantitative methods of analysis using titrimetric, gravimetric, potentiometric and photometric methods of analysis including statistical treatment of experimental data. IMPORTANT: Attendance of the first laboratory session dealing with safety procedures is mandatory: students who do not attend must immediately call the Chemistry Department, and may be dropped from the class. *Occasional.* M&S fee: \$25.00

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CHM 3212L COS-CHEM 2(0,6) Organic Laboratory Techniques II: PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. IMPORTANT: Attendance of the first laboratory session dealing with safety procedures is mandatory; students who do not attend must immediately call the Chemistry Department, and may be dropped from the class. <i>Fall</i> . M&S fee: \$45.00	CHM 5225 COS-CHEM 3(3,0) 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> .	CHS 3530C COS-CHEM 4(3,3) Forensic Analysis of Controlled Substances: PR: 'C' grade or better in CHM 3120, CHM 3410, CHM 2211, CHM 2211L and CHS 3505C. Study of presumptive tests, isolation, and instrumental techniques used in identification of controlled substances. <i>Fall</i> . M&S fee: \$45.00
CHM 3410 COS-CHEM 4(3,1) 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> .	CHM 5235 COS-CHEM 3(3,0) 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> .	CHS 3533 COS-CHEM 2(2,0) 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 3411 COS-CHEM 3(3,0) Physical Chemistry II: PR: CHM 3410. Continuation of CHM 3410. <i>Spring</i> .	CHM 5305 COS-CHEM 3(3,0) 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> .	CHS 3533L COS-CHEM 1(0,3) 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 3411L COS-CHEM 2(0,6) 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	CHM 5450 COS-CHEM 3(3,0) 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> .	CHS 3540C COS-CHEM 2(1,3) 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 3422 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> .	CHM 5451C COS-CHEM 3(1,5) 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	CHS 3595 COS-CHEM 3(3,0) 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 4130 COS-CHEM 3(3,0) 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> .	CHM 5580 COS-CHEM 3(3,0) 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> .	CHS 3949 COS-CHEM 0(0,8) 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 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	CHM 5715C COS-CHEM 3(2,3) 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> .	CHS 4200 COS-CHEM 3(3,0) 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 4220 COS-CHEM 3(3,0) Organic Chemistry III: PR: CHM 2211 or its equivalent. Organic reaction mechanisms and retrosynthetic analysis and their application to synthetic chemistry. <i>Occasional</i> .	CHS 1440 COS-CHEM 4(3,1) 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> .	CHS 4506C COS-CHEM 3(2,3) Forensic Investigation Technology: PR: A grade of "C" or better in CHS 3511C. Modern technology applied to forensic investigation. <i>Occasional</i> .
CHM 4610 COS-CHEM 3(3,0) Inorganic Chemistry: CR: CHM 3411. A discussion of descriptive inorganic chemistry based on various bonding theories, thermodynamics, and kinetics. <i>Spring</i> .	CHS 3501 COS-CHEM 3(3,0) 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> .	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> .
CHM 4610L COS-CHEM 2(0,6) 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	CHS 3505C COS-CHEM 4(2,6) 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	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> .
CHM 4914C COS-CHEM 1(1,1) 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> .	CHS 3511C COS-CHEM 4(2,6) 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	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
CHM 4930 COS-CHEM 1(1,0) 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. May be used in the degree program a maximum of 2 times. <i>Fall, Spring</i> .	CHS 3514C COS-CHEM 3(2,3) 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> .	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> .
		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> .

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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. *Occasional.* M&S fee: \$39.00

CHS 4591 COS-CHEM 4(0,40)
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. *Occasional.*

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. *Odd Spring.*

CHS 5502 COS-CHEM 3(3,0)
Principles of Forensic Science: PR: Admission to Forensic Science MS program or C.I. Principles of forensic science crime scene investigation, concepts in physical and biological evidence, evidence collection and transport, discrimination and individualization of evidence. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CHS 5596 COS-CHEM 3(3,0)
The Forensic Expert in the Courtroom: PR: CHS 3533, CHS 6535, CHS 6536, or C.I. A study of the uses of technically and scientifically trained expert witnesses at trial. *Spring.*

CIS 3003 ECS-CS 3(3,0)
Fundamentals of Information Technology: PR: CGS 2545C and COP 3223. Pervasive themes in IT. Organizational issues. History of IT. IT and its related and informing disciplines. Application domains. Applications of math and statistics to IT. *Fall.*

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. *Occasional.*

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. *Occasional.*

CIS 4004 ECS-CS 3(3,0)
Web-Based Information Technology: PR: CNT 3004 and COP 3330. Digital libraries. Media formats. Compression. Streaming Media. Mobile internet and WML. Emerging technologies. Capacity planning for web services. *Fall, Spring.*

CIS 4313 ECS-CS 3(3,0)
Managing IT Integration: PR: CIS 3003. Requirements, acquisition and sourcing. Integration. Project management. Testing and QA. Organizational context. Architecture. *Spring.*

CIS 4361 ECS-CS 3(3,0)
Secure Operating Systems and Administration: PR: COP 4600 or CGS 3763. Understanding of secure operating systems requirements, design principles and theories, protection methods, access control, authentication, vulnerability, analysis and case studies. *Occasional.*

CIS 4615 ECS-CS 3(3,0)
Secure Software Development and Assurance: PR: (COP 4600 or CGS 3763) and (CIS 3360 or CIS 3362) or C.I. 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. *Occasional.*

CIS 5105 ECS-CS 3(3,0)
Capacity Planning and Performance Evaluation of Web Services: PR: COP 4600, graduate standing and/or approval of the Director of the Software Engineering Certificate Program. Web performance problems, basic performance concepts, quantitative models for web performance, planning the capacity of web services, understanding and characterizing the workload, measuring performance. *Occasional.*

CIS 5378 ECS-CS 3(3,0)
Designing Secure Transactions in Web Applications: PR: Graduate standing and/or approval of the Director of the Software Engineering Certificate Program. Secure electronic commerce, data indirection, shell command injection, cross-site scripting, Web Trojans, symmetric encryption, security protocols, application vulnerabilities, threats and hackers. *Spring.*

CJC 3010 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CJE 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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

CJE 4012 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. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

CJE 4350 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. *Occasional.*

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. *Occasional.*

CJE 4572 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. *Occasional.*

CJE 4610 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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CJE 5021 HPA-CJ/LS 3(3,0)
Foundations of Law Enforcement: PR: C.I. Examines police role in modern society and law enforcement policy. *Occasional.*

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. *Occasional.*

CJJ 3014H 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. *Occasional.*

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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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

CJL 4046 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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CJL 5049 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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CJT 4843 HPA-CJ/LS 3(3,0)
Risk Management in Criminal Justice/Private Security: PR: SCC 3311. This course examines the concept of risk management in a criminal justice context. *Occasional.*

CLP 3004 COS-PSYCH 3(3,0)
Behavioral Self Control: PR: PSY 2012. Application of behavioral and biofeedback techniques to self-regulation. *Occasional.*

CLP 3143 COS-PSYCH 3(3,0)
Abnormal Psychology: PR: PSY 2012 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior. *Fall, Spring.*

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. *Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Fall, Odd Spring.*

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. *Occasional.*

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. *Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CLT 3370 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. *Occasional.*

CLT 3378 CAH-PHIL 3(3,0)
Comparative Mythology: PR: ENC 1102 and either HUM 2230, REL 2300, WOH 2022, LIT 2120, or CLT 3370. Common themes found in the myths of various cultures; theories of their origins, meaning and value in human experience. *Occasional.*

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. *Occasional.*

CNT 3004 ECS-CS 3(3,0)
Computer Network Concepts: PR: CGS 1060C, EEL 3041. Network media, protocol, current and evolving standards for local, metropolitan, wide area and wireless networks. *Fall, Spring.*

CNT 4403 ECS-CS 3(3,0)
Network Security and Privacy: PR: (CNT 3004 or CET 4483 or CNT 4704) and (CIS 3360 or CIS 3362) or C.I. Fundamentals of network security, protocols, secure applications, network intrusion detection, security policy, firewalls, and privacy issues. *Occasional.*

CNT 4703C ECS-CS 3(1,2)
Design and Implementation of Computer Communication Networks: PR: CNT 3004, 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. *Fall, Spring.* M&S fee: \$16.00

CNT 4704 ECS-CS 3(3,0)
Analysis of Computer Communication Networks: PR: COT 3100C, STA 2023, MAC 3212. Network design using layering. Introduces cabling, topology, architecture, hardware and software. Includes performance and control issues such as congestion control, error control, contention resolution. *Occasional.*

CNT 4714 ECS-CS 3(3,0)
Enterprise Computing: PR: CGS 3269, MAD 2104, COP 3330 and COP 3502C. Client-server architecture. Server-side scripting: Servlets, JSP, PHP, JDBC and MySQL database; connectivity. Multi-threaded Java applications. J2EE development. SSL, Event-driven programming. *Fall, Spring.*

CNT 5008 ECS-CS 3(3,0)
Computer Communication Networks Architecture: PR: EEL 4768C. Computer networks, layers, protocols and interfaces, local area networks networking. *Fall.*

COM 1000 COS-COMM 3(3,0)
Introduction to Communication: Survey course introducing students to theory, research, and practical principles associated with human communication in interpersonal, public, and professional contexts. *Fall, Spring.*

COM 2347C COS-COMM 1(1,1)
Sports Speaking and Interviewing: PR: SPC 1608. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U. *Occasional.*

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. *Fall, Spring.*

COM 3013 COS-COMM 3(3,0)
Communication and the Family: PR: SPC 1608. The ways members of a family unit interact verbally and nonverbally to influence one another. *Even Fall.*

COM 3110 COS-COMM 3(3,0)
Business and Professional Communication: PR: Majors only, SPC 1608 or C.I. Theoretical and practical training in effective presentational speaking for business and professions. *Fall, Spring.*

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COM 3110H COS-COMM 3(3,0)
Honors Business and Professional Communication: PR: Majors only, SPC 1608 or C.I. and consent of Honors. Theoretical and practical training in effective presentational speaking for business and professions. With Honors content. *Occasional.*

COM 3120 COS-COMM 3(3,0)
Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies. *Fall, Spring.*

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. *Fall, Spring.*

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. *Even Spring.*

COM 3332 COS-COMM 3(3,0)
Communication, Technology, and Change: PR: SPC 1608. How new technologies influence (and are influenced by) communication in a variety of contexts, including organization and interpersonal settings. *Spring.*

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. *Occasional.*

COM 4014 COS-COMM 3(3,0)
Gender Issues in Communication: PR: SPC 1608 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. *Occasional.*

COM 4461 COS-COMM 3(3,0)
Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts. *Fall, Even Spring.*

COM 4462 COS-COMM 3(3,0)
Conflict Management: PR: COM 3311. The study of communication in everyday conflicts. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall.*

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. *Fall, Spring.*

COP 4331C ECS-CS 4(3,1)
Processes for Object-Oriented Software Development: PR: COP 3502C, COP 3330, COT 3960 (Foundation Exam - for Computer Science students). Concepts, principles, processes and methods for developing large software systems featuring a team project using object-oriented design in UML and implementation in C++. *Occasional.*

COP 4516C ECS-CS 3(1,3)
Problem Solving Techniques and Team Dynamics: PR: COP 3503C. Design and implement solutions to problems requiring the applications of the different algorithms. Team project format. *Occasional.*

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. *Occasional.*

COP 4600 ECS-CS 3(3,0)
Operating Systems: PR: COP 3402 and COP 3503C and COT 3960 for Computer Science students. Function and organization of operating systems, process management, virtual memory, I/O management, and file management. *Fall, Spring.*

COP 4610L ECS-CS 3(0,3)
Operating Systems Laboratory: PR: COP 3502C. 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. *Fall, Spring.*

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. *Fall, Spring.*

COP 4910 ECS-CS 3(3,0)
Frontiers in Information Technology: PR: COP 4610L or CNT 4703C. Research into leading edge information technologies that have a high likelihood of affecting the work place in the two to five year time frame. *Spring.*

COP 5021 ECS-CS 3(3,0)
Program Analysis: PR: COP 4020 and COT 4210 or C.I. Static analysis of programs including theoretical and practical limitations, data flow analysis, abstract interpretation, and type and effect systems. Tools to automate program analysis. *Even Spring.*

COP 5537 ECS-CS 3(3,0)
Network Optimization: PR: Graduate standing or C.I. Techniques for modeling complex, interconnected systems as networks; optimization with graph theory; algorithms, data structures, and computational complexity; statistical methods for studying large, evolving networks. *Fall.*

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 queueing theory, security, distributed systems, case studies. *Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

CPO 3034 COS-POLS 3(3,0)
Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations. *Even Fall.*

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. *Spring.*

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. *Odd Spring.*

CPO 3132 COS-POLS 3(3,0)
Canadian Studies: A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy. *Occasional.*

CPO 3403 COS-POLS 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. *Even Fall, Spring.*

CPO 3403H COS-POLS 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. *Occasional.*

CPO 3614 COS-POLS 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. *Occasional.*

CPO 4047 COS-POLS 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. *Occasional.*

CPO 4062 COS-POLS 3(3,0)
Comparative Judicial Process: Study of courts and judges in cross national context. Focus upon judicial recruitment, decisional patterns, and policy outcomes. *Occasional.*

CPO 4074 COS-POLS 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. *Even Fall.*

CPO 4101 COS-POLS 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. *Spring.*

CPO 4123 COS-POLS 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. *Even Spring.*

CPO 4303 COS-POLS 3(3,0)
Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region. *Even Fall.*

CPO 4445 COS-POLS 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. *Occasional.*

CPO 4514 COS-POLS 3(3,0)
Politics of East Asia: PR: POS 2041 or C.I. Major trends in political, economic, and socio-cultural aspects in the East Asian region. *Occasional.*

CPO 4553 COS-POLS 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. *Fall.*

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. *Occasional.*

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. *Occasional.*

CPO 4754 COS-POLS 3(3,0)
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. *Occasional.*

CPO 4784 COS-POLS 3(3,0)
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. *Occasional.*

CPO 4794 COS-POLS 3(3,0)
Indigenous Politics and the Environment: PR: POS 2041 or C.I. Unique environmental politics specific to indigenous peoples around the world. *Occasional.*

CPO 5334 COS-POLS 3(3,0)
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. *Occasional.*

CRW 3010H CAH-ENG 3(3,0)
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. *Occasional.*

CRW 3011 CAH-ENG 3(3,0)
Creative Writing for Non-Majors: PR: Grade of C (2.0) or better required in ENC 1102. Only open to non-majors. 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. *Fall, Spring.*

CRW 3013 CAH-ENG 3(3,0)
Creative Writing for English Majors: PR: English major or minor, junior standing, and grade of "C" (2.0) or better required in ENC 1102, or C.I. Literary genres; practice and critique of peer writing; critical reading of established authors. *Fall, Spring.*

CRW 3120 CAH-ENG 3(3,0)
Fiction Writing Workshop: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013, or C.I. An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory. *Fall, Spring.*

CRW 3211 CAH-ENG 3(3,0)
Creative Nonfiction Writing: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013, or C.I. 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. *Fall, Spring.*

CRW 3310 CAH-ENG 3(3,0)
Poetry Writing Workshop: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013, or C.I. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory. *Fall, Spring.*

CRW 3311 CAH-ENG 3(3,0)
Structure of Verse: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013, or C.I. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, scansion, and poetic rhetorical devices. *Occasional.*

CRW 3540 CAH-ENG 3(3,0)
Literary Magazines: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013, or C.I. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature. *Fall, Spring.*

CRW 3610 CAH-ENG 3(3,0)
Writing Scripts: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013, or C.I. Theory and practice of writing scripts for film and TV. *Occasional.*

CRW 3950 CAH-ENG 3(3,0)
Cypress Dome Editorship: PR: C.I. Responsibility for all aspects of editing The Cypress Dome-UCF's student literary journal. *Fall, Spring.*

CRW 4014 CAH-ENG 3(3,0)
The Writing Life: PR: English major or minor, junior standing, completion of at least one of the following courses: A grade of C (2.0) or better in CRW 3120, CRW 3211, CRW 3310, or CRW 3610, CRW 3013, or C.I. Critical/non-fiction/craft works and fictional works by a series of authors. *Occasional.*

CRW 4114 CAH-ENG 3(3,0)
History of Prose Style: PR: English major or minor, junior standing, and grade of C (2.0) or better in CRW 3013, or C.I. Close study of style and craft in exemplary works of fiction and creative nonfiction from various time periods. *Occasional.*

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CRW 4122 CAH-ENG 3(3,0) Advanced Fiction Writing Workshop: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013 and CRW 3120, or C.I. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. <i>Fall, 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 2300 ED-CFCS 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>
CRW 4123 CAH-ENG 3(3,0) Science Fiction Writing: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013 and CRW 3120, or C.I. Study of science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments. <i>Occasional.</i>	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 2351 ED-CFCS 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>
CRW 4224 CAH-ENG 3(3,0) Advanced Nonfiction Workshop: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013 and CRW 3211, or C.I. Intensive reading, writing, and workshop of creative nonfiction drawing on memory, observation, journalistic research, and literary techniques. <i>Fall, Spring.</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 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>
CRW 4320 CAH-ENG 3(3,0) Advanced Poetry Writing Workshop: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013 and CRW 3310, or C.I. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. <i>Fall, Spring.</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 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>
CRW 4616 CAH-ENG 3(3,0) Advanced Scriptwriting Workshop: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013 and CRW 3610, or C.I. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. <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 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>
CRW 4722 CAH-ENG 3(3,0) Editing for Creative Writers: PR: English major or minor, junior standing, and grade of C (2.0) or better required in CRW 3013 and at least one of CRW 3120, CRW 3211, CRW 3310, or CRW 3610, or C.I. Overview of editing processes, the history and future of editing, issues and areas of literary and trade book publishing, and style through grammar and syntax. <i>Occasional.</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>
CRW 4724 CAH-ENG 3(3,0) The Florida Review: PR: English major and grade of C (2.0) or better required in CRW 3013 and C.I. Hands-on experience with all aspects of Florida Review publishing, editing, and production in conjunction with this national journal. <i>Fall, Spring.</i>	CWR 5515 ECS-CEE 3(3,0) Numerical Methods in Civil and 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>
CRW 4804 CAH-ENG 3(3,0) 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>	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 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>
CRW 5020 CAH-ENG 3(3,0) 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>	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 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>
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 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 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>
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 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 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>
	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 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>
		DAA 3684 CAH-THEA 1(0,VAR) 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. May be repeated for credit. <i>Spring.</i> M&S fee: \$15.00

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DAE 3370	ED-CFCS	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>
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 early 20th century. <i>Fall.</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>
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>
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>
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>
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>
DIG 2000	CAH-DIG	3(3,0)	Introduction to Digital Media: PR: ENC 1101 and MAC 1105. Introduction to history, principles, and processes associated with digital media and designing for digital media with emphasis on production and communication. <i>Fall, Spring.</i>
DIG 2030C	CAH-DIG	3(2,2)	Digital Video Fundamentals: PR: ENC 1101, MAC 1105; CR: DIG 2000. Introduces concepts and principles of producing and assembling digital video and the tools and techniques of video and sound capture. <i>Fall, Spring.</i>
DIG 2109C	CAH-DIG	3(2,2)	Digital Imaging Fundamentals: CR: DIG 2000. Introduces concepts and principles of image creation, and the tools and techniques of image capture, creation, manipulation, and integration for design concepts. <i>Fall, Spring.</i>
DIG 2485	CAH-DIG	3(3,0)	Visual Language of the Moving Image: PR: Minimum grade of "B" (3.0) or better in DIG 2000. Conceptual structure and design of visual storytelling. Principles, mechanics, character development, personality of place, exaggeration and effects. <i>Fall, Spring.</i>
DIG 2500C	CAH-DIG	3(2,2)	Fundamentals of Interactive Design: CR: DIG 2000. Foundations of interactive media including user-interface design. Students combine audio, video, imaging, and animation using industry standard software. <i>Fall, Spring.</i>
DIG 2821	CAH-DIG	3(3,0)	Creative Digital Media Problem Solving: PR: Minimum grade of "B" (3.0) in DIG 2000. Practical tools to enhance the creative process in the development of new, novel, and useful ideas for digital media. <i>Fall, Spring.</i>
DIG 3024	CAH-DIG	3(3,0)	Digital Cultures & Narrative: PR: DIG 2030C, DIG 2109C, DIG 2500C, and a minimum grade of B(3.0) in DIG 2000. Understanding of digital cultures and narrative theories from an interdisciplinary perspective. Conceptual structure and design of visual and interactive storytelling. <i>Fall, Spring.</i>
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>
DIG 3134	CAH-DIG	3(3,0)	Media Software Design: PR: DIG 2000 and COP 2500C with a minimum grade of "B" (3.0) in DIG 2000. Fundamentals of software design in Internet environments. Introduction to discrete mathematics, programming/design schema, and computational structures. <i>Fall, Spring.</i>
DIG 3138C	CAH-DIG	3(2,2)	Digital Imagery: PR: DIG 2109C and a minimum grade of "B" (3.0) in DIG 2000. Technical principles of digital photography and scanned image capture for use in video games, internet and interactive software. Project oriented. <i>Fall, Spring.</i>
DIG 3153	CAH-DIG	3(3,0)	Writing for Digital Media: PR: Minimum grade of "B" (3.0) in DIG 2000. 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>
DIG 3253C	CAH-DIG	3(2,2)	Digital Media Audio: PR: DIG 3480C. Audio production processes for multimedia and new media production, including examination and use of audio and MIDI sequencing software. <i>Fall, Spring.</i>
DIG 3286C	CAH-DIG	3(2,2)	Assembling Digital Media: PR: DIG 2030C and a minimum grade of "B" (3.0) in DIG 2000. Digital narratives, visual storytelling, and the assembly and editing of images and sounds for use in interactive media. Project oriented. <i>Fall, Spring.</i>
DIG 3355C	CAH-DIG	3(2,2)	Artificial Environments and Effects: PR: DIG 2485 and C.I. CR: DIG 3951. Design and 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>Fall.</i>
DIG 3362C	CAH-DIG	3(2,2)	Artificial Characters: PR: DIG 2485 and C.I. CR: DIG 3951. Processes and techniques for design and manipulation of artificial characters to convey story, thought, or concept in a visual medium. <i>Fall.</i>
DIG 3433C	CAH-DIG	3(2,2)	Visual Storytelling and Visual Development: PR: DIG 2485 and C.I. CR: DIG 3951. Processes and techniques to transform story concepts into a producible visual experience. <i>Odd Fall.</i>
DIG 3450	CAH-DIG	3(3,0)	Interactive Performance I: PR: Admission by audition only. Digital Media, Theatre majors, or C.I. Techniques of interactive acting, with emphasis on interpersonal awareness and audience facilitation. <i>Fall, Spring.</i>
DIG 3450H	CAH-DIG	3(3,0)	Honors Interactive Performance I: PR: C.I. and consent of Honors. Techniques of interactive acting, with emphasis on interpersonal awareness and audience facilitation. With Honors content. <i>Occasional.</i>
DIG 3480C	CAH-DIG	3(2,2)	Computer as a Medium: PR: DIG 2500C, COP 2500C, and a minimum grade of "B" (3.0) in DIG 2000. Fundamentals of client-side scripting with an emphasis on web technologies. Development of interactive web sites using current scripting languages. <i>Fall, Spring.</i>
DIG 3525	CAH-DIG	3(3,0)	Digital Media Production I: PR: DIG 2030C, DIG 2109C, DIG 2500C, and a minimum grade of "B" (3.0) in DIG 2000. Media project planning, organization and execution: group dynamics. Software tools for project planning, scheduling and management. <i>Fall, Spring.</i>
DIG 3543C	CAH-DIG	3(2,2)	The Production Process: PR: DIG 2485 and C.I. CR: DIG 3951. Production in a visual medium from narrative idea to finished artifact. <i>Odd Fall.</i>
DIG 3563	CAH-DIG	3(3,0)	Information Management and Entrepreneurship: PR: DIG 3525. Managing digital assets from both technical and fiduciary aspects with a view towards creating, storing, retrieving assets, and authoring of databases and file types. Introduction of basic financial and entrepreneurial elements of starting and running a small business. <i>Fall, Spring.</i>
DIG 3716C	CAH-DIG	3(2,2)	Internet Interaction: PR: DIG 3480C. Front end planning and design of web pages. Design using markup languages and style sheets to produce visually pleasing and usable interactive interfaces. <i>Fall, Spring.</i>
DIG 3811	CAH-DIG	3(3,0)	User-Centered Design: PR: DIG 3525. Applying knowledge about cognition and behavior to design usable interfaces and systems. <i>Fall, Spring.</i>
DIG 3951	CAH-DIG	0(0,0)	Visual Language Portfolio Review: PR: C.I. Review of relevant digital and artistic works in a student's portfolio. Graded S/U. <i>Fall.</i>
DIG 4104C	CAH-DIG	3(2,2)	Web Design Workshop: PR: DIG 3134C, DIG 3716C, DIG 3563, and DIG 3811. Students will practice designing and implementing professional-quality websites. May be used in the degree program a maximum of 2 times. <i>Fall, Spring.</i>
DIG 4204C	CAH-DIG	3(2,2)	Generating and Manipulating Digital Imagery: PR: DIG 2485 and C.I. CR: DIG 3951. Core techniques for creating and manipulating second and third digital representations. <i>Fall.</i>
DIG 4206C	CAH-DIG	3(1,4)	New Imagery in Motion Workshop: PR: DIG 4325C, successful portfolio review, or C.I. Conceptual and technical aspects of scripting, image processing, 3D/2D data acquisition while practicing the use of generators, filters, particles, masks, and audio into digital projects. <i>Spring.</i>
DIG 4323C	CAH-DIG	3(1,4)	Modeling for Visual Language: PR: DIG 4204C, successful portfolio, or C.I. Application of techniques taught to model, rig, and prepare artificial characters so that they be animated effectively and express narrative for digital production. <i>Fall.</i>
DIG 4324C	CAH-DIG	3(2,2)	Modeling for Realtime Systems II: PR: DIG 4780C. Advanced techniques for character animation, texture, lighting, rendering. Project oriented. <i>Spring.</i>
DIG 4325C	CAH-DIG	3(1,4)	Look Modeling Workshop: PR: DIG 4204C, successful portfolio review, or C.I. Techniques, mechanics of designing, developing finished look emphasis on rendering, shading, texturing, and lighting. <i>Spring.</i>

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DIG 4326C CAH-DIG 3(1,4)
Geometrical Modeling Workshop: PR: DIG 4204C, successful portfolio review, or C.I. Techniques and mechanics of designing and manipulating geometrical representations of artificial characters and their environments; introduction to procedural models. *Spring.*

DIG 4354C CAH-DIG 3(1,4)
Advanced 3D Animation: PR: DIG 4323C, successful portfolio review, or C.I. Advanced tools, concepts and techniques developed in the previous 3D animation courses. Students apply techniques to 3D character animation. *Spring.*

DIG 4359C CAH-DIG 3(1,4)
Artificial Environments and Effects Workshop: PR: DIG 3355C and successful portfolio review, or C.I. Techniques and mechanics of artificial environments, with emphasis on compositing, image processing, visual style, visual continuity. *Spring.*

DIG 4369C CAH-DIG 3(1,4)
Artificial Characters Workshop: PR: DIG 3362C 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. *Spring.*

DIG 4373C CAH-DIG 3(1,4)
3D Textures: PR: DIG 4369C, successful portfolio review, or C.I. Advanced application of lighting and surface attributes, improving on the tools, concepts, and techniques learned in previous 3D courses. *Spring.*

DIG 4394C CAH-DIG 3(1,4)
Motion Graphics: Advanced Compositing: PR: DIG 4359C, successful portfolio review, or C.I. Advanced techniques including 3D modeling, texturing, lighting, particles, and compositing to create motion graphics. Manage and navigate objects, images and other media in visual narratives, as pertaining to 3-D Content. *Spring.*

DIG 4434C CAH-DIG 3(1,4)
Narrative Techniques in the Moving Image: PR: DIG 4451C, successful portfolio review, or C.I. Advanced application of techniques in Visual Language employed in story production focusing on advancing a narrative and evoking emotion. *Spring.*

DIG 4451C CAH-DIG 3(1,4)
Visual Storytelling and Visual Development Workshop: PR: DIG 3433C and successful portfolio review, or C.I. Techniques, mechanics of visual development with emphasis on strong visual designs which communicate effectively. *Odd Spring.*

DIG 4455 CAH-DIG 3(3,0)
Interactive Performance II: PR: DIG 3450C or C.I. Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure. *Spring.*

DIG 4486C CAH-DIG 3(1,4)
Visual Language of Moving Image II: PR: DIG 3433C, successful portfolio review, or C.I. Application of techniques taught to design, create, and refine visual development, story board, story reel, character design, and animation that expresses a narrative for digital production. *Fall.*

DIG 4503 CAH-DIG 3(3,0)
Rapid Application Web Development: PR: DIG 3134C and DIG 3716C. Asynchronous web development using current server-side and client-side scripting techniques and database technologies. *Fall, Spring.*

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. *Fall, Spring.*

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 2000. 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. *Even Fall, Spring.*

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 2000. 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. *Odd Fall, Even Spring.*

DIG 4526 CAH-DIG 3(3,0)
Digital Media Production II: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 2000. Management and execution of large digital media projects, using structured methods and tools learned in Digital Media Production I. *Fall, Spring.*

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 2000. Continuation of IDS 4682. *Odd Fall, Even Spring.*

DIG 4530C CAH-DIG 3(2,2)
Media for e-Commerce: PR: DIG 3134C and DIG 3716C. The applications of server-side internet programming languages and media theory to e-commerce, internet security, and online portals. *Fall, Spring.*

DIG 4624C CAH-DIG 3(1,4)
Digital Production in Artificial Environments: PR: DIG 4359C, successful portfolio review, or C.I. Application of techniques to continue building artificial environments and effects, addressing lighting, continuity, movement, theme and mood to help express a narrative for digital production. *Fall.*

DIG 4630C CAH-DIG 3(2,2)
Media Business Practices: PR: DIG 3525. Media business practices for working with interactive web sites and other media interfaces. Covers skills related to e-commerce and other forms of dynamic media. *Fall, Spring.*

DIG 4645 ECS-CS 3(3,0)
Digital Media: PR: COP 3503C 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 4693C CAH-DIG 3(2,2)
Production Software Workshop: PR: DIG 3134C or C.I. Advanced programming techniques for a variety of web-based applications using ActionScript, including dynamic and input text, variables, physics, artificial intelligence, collision detection, user interaction, and animation. *Spring.*

DIG 4704C CAH-DIG 3(2,2)
Interactive Entertainment: PR: DIG 3134C, DIG 3153, DIG 3525, DIG 3563, and C.I. 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. *Fall, Spring.*

DIG 4713 CAH-DIG 3(3,0)
Game Design: PR: DIG 3024 and DIG 3525. Principles and theories of video game design, including software, content, interaction, and game play design. Project based. *Fall, Spring.*

DIG 4715C CAH-DIG 3(2,2)
Game Production: PR: A minimum grade of "B" (3.0) in DIG 4713 and a satisfactory portfolio review. Principles and theories of video game production, including project planning, scripting, 3D modeling and texturing, level design, and audio. Project based. *Fall, Spring.*

DIG 4720C CAH-DIG 3(2,2)
Casual Game Production: PR: DIG 2500C, a minimum grade of "B" (3.0) in DIG 4713, and a satisfactory portfolio review. Students will learn to design and implement casual video games using professional tools and iterative design techniques. *Fall, Spring.*

DIG 4725C CAH-DIG 3(2,2)
Game Design Workshop: PR: DIG 4715C, FIL 3720C, a minimum grade of "B" (3.0) in DIG 4713, and a satisfactory portfolio review. Students will learn to design and implement video games using professional tools and iterative design techniques. May be used in the degree program a maximum of 4 times. *Fall, Spring.*

DIG 4770 ECS-CS 3(3,0)
Building Virtual Worlds: PR: COP 3503C 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 4780C CAH-DIG 3(2,2)
Modeling for Realtime Systems: PR: DIG 2109C and a minimum grade of "B" (3.0) in DIG 2000. Principles of construction of 3D models for real-time applications. Topics include level of detail management and efficiency versus visual quality for video games and simulation. *Fall, Spring.*

DIG 4855C CAH-DIG 3(1,4)
Converging Media: PR: DIG 4704C and C.I. Applying the convergence of story, play and game conventions into innovative Internet experiences. *Fall, Spring.*

DIG 5045C CAH-DIG 3(1,3)
Principles of Interactive Entertainment I: PR: Admission to Digital Media MS 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 5137 CAH-DIG 3(3,0)
Information Architecture: PR: Film and digital media majors or C.I. Exploration of the process of formal design of interactive processes, examining the theories of usability and object oriented design. *Fall.*

DIG 5366 CAH-DIG 3(3,0)
Creating Interactive Characters: PR: Admission to Digital Media MS 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 5487 CAH-DIG 3(3,0)
Principles of Visual Language: PR: Film and digital media majors or C.I. Overview of Visual Language, including the nature of perceptions and cognitions of imagery. *Fall.*

DIG 5529C CAH-DIG 3(1,3)
Production for Media: PR: Admission to Digital Media MS 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 MS 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.*

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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. <i>Occasional.</i>	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. <i>Spring.</i>	EAS 4505 ECS-MMAE 3(3,0) 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>
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. <i>Occasional.</i>	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. <i>Fall.</i> M&S fee: \$15.00	EAS 4700C ECS-MMAE 3(1,6) Aerospace Design I: PR: EAS 4200, EAS 3010, EAS 3800C, CR: EML 4312C, EAS 4991. 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
DIG 5810 CAH-DIG 3(3,0) Ways of Seeing: Cultural and Technological Perspectives: PR: Admission to Film and Digital Media master's program or C.I. Cultural and technological perspectives formed by the intersection of media and cultural studies, art history and criticism, and cinema studies. <i>Fall.</i>	EAS 3810C ECS-MMAE 3(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. <i>Spring.</i> M&S fee: \$45.00	EAS 4710C ECS-MMAE 3(1,6) Aerospace Design II: PR: EAS 4700C, EAS 4991. 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
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. <i>Occasional.</i>	EAS 3990 ECS-MMAE 0(0,0) Aerospace Career and Academic Faculty Advising I: PR: MAP 2302. Mandatory meeting with students and their faculty advisor for career/academic advising. Graded S/U. <i>Fall, Spring.</i>	EAS 4991 ECS-MMAE 0(0,0) Aerospace Career and Academic Faculty Advising II: PR: EAS 3990; CR: EML 4312C. Mandatory meeting with students and their faculty advisor for career/academic advising. Graded S/U. <i>Fall, Spring.</i>
DIG 5950 CAH-DIG 3(3,0) Interactive Entertainment Capstone: PR: Admission to Digital Media MS. Prepare a product design document and technical design document for a production project. Graded S/U. <i>Fall, Spring.</i>	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. <i>Fall.</i>	EAS 5123 ECS-MMAE 3(3,0) 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>
DSC 4012 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>	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. <i>Fall.</i>	EAS 5157 ECS-MMAE 3(3,0) 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>
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. <i>Occasional.</i>	EAS 4154 ECS-MMAE 3(3,0) Rotorcraft Aerodynamics: PR: EAS 3010. Helicopter aerodynamics. Momentum and blade element theories applied to hover, vertical and forward flight. Factors affecting design, performance & stability will be discussed. <i>Occasional.</i>	EAS 5302 ECS-MMAE 3(3,0) 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>
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. <i>Fall.</i>	EAS 4200 ECS-MMAE 3(3,0) Flight Structures: PR: EGM 3601. Fundamental structural and dynamic design of aircraft and space vehicle components. Classical and finite element methods. <i>Fall.</i>	EAS 5315 ECS-MMAE 3(3,0) 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>
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. <i>Occasional.</i>	EAS 4210 ECS-MMAE 3(3,0) 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>	EAS 5407 ECS-MMAE 3(3,0) 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>
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. <i>Occasional.</i>	EAS 4300 ECS-MMAE 3(3,0) 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>	EAS 5535 ECS-MMAE 3(3,0) 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>
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, airfoil theory, external and internal flows, airplane performance. <i>Fall.</i>	EAS 4400 ECS-MMAE 3(3,0) 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>	EBD 3213 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>
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. <i>Spring.</i>	EAS 4404C ECS-MMAE 3(2,3) 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	EBD 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>

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EBD 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. *Occasional.*

EBD 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. *Occasional.*

EBD 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. *Occasional.*

ECM 4504C ECS-ECE 4(3,3)
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. *Occasional.* M&S fee: \$12.00

ECM 5135 ECS-ECE 3(3,0)
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. *Occasional.*

ECM 5741C ECS-ECE 3(2,3)
Microcomputer-based Monitoring and Control Systems: PR: EEE 3342C; EEL 4767C or C.I. Machine language programming; software development aids; systems design; interfacing considerations. *Occasional.*

ECO 2013 BA-ECON 3(3,0)
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. *Fall, Spring.*

ECO 2013H BA-ECON 3(3,0)
Honors Principles of Economics Macroeconomics: PR: Permission of Honors. Same as ECO 2013 with honors-level content. *Fall, Spring.*

ECO 2023 BA-ECON 3(3,0)
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. *Fall, Spring.*

ECO 2023H BA-ECON 3(3,0)
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. *Occasional.*

ECO 3070 BA-ECON 1(1,0)
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. *Fall, Spring.*

ECO 3101 BA-ECON 3(3,0)
Intermediate Microeconomics: PR: ECO 2013, ECO 2023 and ECO 3401. Theoretical study of the behavior of households, firms, and the markets in which they operate with issues and applications. *Fall, Spring.*

ECO 3203 BA-ECON 3(3,0)
Intermediate Macroeconomics: PR: ECO 2013 and ECO 2023 and ECO 3401. Measurement, analysis, and control of aggregate economic activity. *Fall, Spring.*

ECO 3223 BA-ECON 3(3,0)
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. *Odd Spring.*

ECO 3401 BA-ECON 3(3,0)
Quantitative Business Tools I: PR: ECO 2023, MAC 1140. Introduction to mathematical and statistical analysis of economics and business problems. *Fall, Spring.*

ECO 3410 BA-ECON 3(3,0)
Mathematical Economics: PR: ECO 3101. Mathematical methods with particular focus on microeconomics foundations of individual decision-making. *Spring.*

ECO 3411 BA-ECON 4(4,0)
Quantitative Business Tools II: PR: Junior standing and business major or minor, ECO 2013, ECO 2023, and ECO 3401. The use of statistical methods as scientific tools in the analysis of economics and business problems. *Fall, Spring.*

ECO 3411H BA-ECON 3(3,0)
Honors: Quantitative Business Tools II: PR: ECO 3401, permission of honors. Same as ECO 3411 with Honors level content. *Occasional.*

ECO 3703 BA-ECON 3(3,0)
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. *Fall.*

ECO 3704 BA-ECON 3(3,0)
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. *Spring.*

ECO 4303 BA-ECON 3(3,0)
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. *Occasional.*

ECO 4412 BA-ECON 3(3,0)
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. *Even Fall.*

ECO 4451 BA-ECON 3(3,0)
Research Methods in Economics: PR: ECO 3101, ECO 3203 and ECO 3411. Skills in data collection and creation, data analysis, and research presentation. *Fall, Spring.*

ECO 4504 BA-ECON 3(3,0)
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. *Occasional.*

ECO 4701 BA-ECON 3(3,0)
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. *Occasional.*

ECO 4704 BA-ECON 3(3,0)
International Macroeconomics: PR: ECO 2013 and ECO 2023. International macroeconomics with review and analysis of current international macroeconomics, financial issues, policies and events. *Occasional.*

ECO 4751 BA-ECON 3(3,0)
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. *Occasional.*

ECO 4941 BA-ECON 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. *Occasional.*

ECO 5005 BA-ECON 3(3,0)
Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis. *Occasional.*

ECP 3004 BA-ECON 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. *Occasional.*

ECP 3203 BA-ECON 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. *Occasional.*

ECP 3302 BA-ECON 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 international dimension of environmental policy. Not open to Economics majors. *Even Fall.*

ECP 4302 BA-ECON 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. *Odd Fall.*

ECP 4403 BA-ECON 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. *Even Spring.*

ECP 4703 BA-ECON 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. *Spring.*

ECS 4013 BA-ECON 3(3,0)
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. *Spring.*

EDE 3942 ED-TLP 3(3,0)
Internship I: PR: EDG 4410, RED 3012, RED 4519, MAE 2801, TSL 4080. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U. *Fall, Spring.*

EDE 4223 ED-TLP 3(3,0)
Integrated Arts and Movement in the Elementary School: PR: Admission to Elementary Education. Provides the prospective teacher with knowledge, skills, and dispositions to integrate arts and movement into the education of elementary school children. *Fall, Spring.* M&S fee: \$10.00

UCF Courses and Descriptions

<p>EDE 4943 ED-TLP 7-12(0,35) 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></p>	<p>EDF 3740 ED-ES 3(3,0) 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></p>	<p>EDG 4410 ED-ES 3(3,0) Teaching Strategies and Classroom Management: PR: EDF 2005, EDF 2085, EME 2040, or C.I. Instructional, organizational and classroom management strategies to create effective learning environments. Fifteen hour in-school experience required. <i>Fall, Spring.</i></p>
<p>EDE 4945 ED-TLP 1(1,0) 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></p>	<p>EDF 4214 ED-ES 3(3,0) 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></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>EDF 1942 ED-ES 3(3,0) Introduction to Educational Internship: Introduction to educational internship with selected partnership institutions. <i>Occasional.</i></p>	<p>EDF 4466 ED-ERTL 3(3,0) 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></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>EDF 2005 ED-ES 3(3,0) Introduction to the Teaching Profession: 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></p>	<p>EDF 4467 ED-ES 3(3,0) Learning Theory and Assessment: PR: EDF 2005, EDF 2085, EME 2040, or C.I. Application of learning theory and assessment principles to classroom teaching situations. Fifteen hour in-school experience required. <i>Fall, Spring.</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>EDF 2007 ED-ES 3(3,0) 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></p>	<p>EDF 4603 ED-ES 3(3,0) Analysis and Application of Ethical, Legal, and Safety Issues in Schools: PR: EDF 2005, EDF 2085, 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></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>EDF 2085 ED-ES 3(3,0) Introduction to Diversity for Educators: 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>EDF 4603H ED-ES 3(3,0) HON Analysis and Application of Ethical, Legal and Safety Issues in Schools: PR: Consent of Honors. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact schooling in a democracy with Honors content. <i>Fall.</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>EDF 2130 ED-ES 3(3,0) 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></p>	<p>EDF 5245 ED-ES 3(3,0) 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></p>	<p>EDS 5356 ED-TLP 3(2,1) Mentoring and Clinical Supervision of Pre-professional Educators: PR: C.I. The practical application of coaching and mentoring practices that satisfy the standards of clinical supervision and assure attainment of the Florida Educator Accomplished Practices. <i>Fall, Spring.</i></p>
<p>EDF 2250 ED-ES 3(3,0) 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></p>	<p>EDF 5607 ED-ES 3(3,0) 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></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>EDF 2720 ED-ES 3(3,0) Children in Schools: Legal, Ethical and Safety Concerns: PR: EDF 2005, EDF 2085, 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></p>	<p>EDG 1005C ED-ES 2(1,1) 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></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>EDF 3120 ED-ES 3(3,0) 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></p>	<p>EDG 2311 ED-ES 3(3,0) 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></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>EDF 3303 ED-ES 3(3,0) 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></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 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>EDF 3601 ED-ES 3(3,0) 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></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>

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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> .	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> .	EEE 5356C	ECS-ECE	4(3,3)	Fabrication of Solid-State Devices: PR: EEE 3350. 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
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> .	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> .	EEE 5370	ECS-ECE	3(3,0)	Operational Amplifiers: PR: EEE 4309C. Ideal and non-ideal Op-Amps. Linear applications. Active RC and switched-capacitor filters. Non-linear and other functional circuits. Frequency stability and compensation of Op-Amps. <i>Even Fall</i> .
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> .	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> .	EEE 5378	ECS-ECE	3(3,0)	CMOS Analog and Digital Circuit Design: PR: EEE 4309C. Advanced principles and design techniques for CMOS ICs including most recent published results. <i>Fall</i> .
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> .	EEE 3307C	ECS-ECE	4(3,3)	Electronics I: PR: EEL 3123C. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models. <i>Fall, Spring</i> . M&S fee: \$15.00	EEE 5390	ECS-ECE	3(3,0)	Full-Custom VLSI Design: PR: EEE 3342C, EEE 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification. <i>Spring</i> .
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> .	EEE 3342C	ECS-ECE	3(2,3)	Digital Systems: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049 all with a "C" (2.0) or better grade and EEL 3801. Combinational and sequential logic circuits including registers, arithmetic units, memories, finite state machines, and design with programmable logic devices. <i>Fall, Spring</i> . M&S fee: \$15.00	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> .
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> .	EEE 3350	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 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> .
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> .	EEE 4309C	ECS-ECE	4(3,3)	Electronics II: PR: EEE 3307C, EEE 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 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
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> .	EEE 4314	ECS-ECE	3(3,0)	Device Electronics for Integrated Circuits: PR: EEE 3350. P.N. Junctions, Bipolar Transistor Analysis, Metal Semiconductor contacts, MOS Systems MOSFET Analysis and Limitations. <i>Occasional</i> .	EEL 3470	ECS-ECE	3(3,0)	Electromagnetic Fields: PR: EEL 3004. Electric and magnetic fields and electromagnetic waves. <i>Fall, Spring</i> .
EEC 4661	ED-CFCS	3(3,0)	Early Childhood Education Theory and Practice: PR: Admission to the Early Childhood Program. Study of 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, Spring</i> .	EEE 4463	ECS-ECE	3(3,0)	MEMS Devices and Applications: PR: EEE 3350 or C.I. Micro-Electro Mechanical Systems devices, microfabrication, sensors and actuators, bulk and surface micromachining, optical MEMS, instrumentation and applications. <i>Fall</i> .	EEL 3531	ECS-ECE	3(3,0)	Information Theory: PR: STA 2023. Entropy and mutual information. Asymptotic equipartition property. Entropy rates of a stochastic process. Data compression. Channel capacity. Gaussian channel. Rate distortion theory. Network information theory. Not open to EE or CpE majors. <i>Fall, Spring</i> .
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> .	EEE 5332C	ECS-ECE	3(2,1)	Thin Film Technology: PR: EEE 3350 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	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
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> .	EEE 5352	ECS-ECE	3(3,0)	Semiconductor Material and Device Characterization: PR: EEE 3350 or C.I. Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films. <i>Occasional</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> .
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> .	EEE 5353	ECS-ECE	3(3,0)	Semiconductor Device Modeling and Simulation: PR: EEE 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> .	EEL 3801	ECS-ECE	3(3,0)	Computer Organization: PR: COP 3223 or equivalent. Computer arithmetic, Instruction Set Architecture, performance, data path, control unit, memory hierarchy, I/O interface. <i>Fall, Spring</i> . M&S fee: \$10.00

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<p>EEL 4050L ECS-ECE 1(0,3) EECS Integrated Laboratory: PR: EEL 3552C, EEL 3657, EEL 4750. Topics: Sampling, Digital FIR and IIR Filters, DSP processing of sound signals, transmitters and receivers based upon AM and FM, PID controller and feedback systems, and power conversion. <i>Occasional.</i></p>	<p>EEL 4767C ECS-ECE 4(3,3) Embedded Systems: PR: EEE 3342C. Microcontroller systems, assembly language programming, data representation, memory and device interfacing, timing analysis, parallel and serial communication, timers, interrupts, signal interfacing considerations, and applications. <i>Fall, Spring.</i> M&S fee: \$30.00</p>	<p>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</p>
<p>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></p>	<p>EEL 4768C ECS-ECE 4(3,3) Computer Architecture: PR: EEL 3801. Computer systems performance and evaluation, processor datapath and control, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory, and RISCvs. CISC. <i>Fall, Spring.</i> M&S fee: \$30.00</p>	<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 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</p>	<p>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></p>	<p>EEL 4914 ECS-ECE 3(3,0) Senior Design I: PR: EEE 3307C, EEL 4767C, and consent of School of EECS. 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 4205 ECS-ECE 3(3,0) Electric Machinery: PR: EEL 3004. Fundamentals of DC and AC electric machines. <i>Occasional.</i></p>	<p>EEL 4783 ECS-ECE 3(3,0) Hardware Description Languages in Digital Systems Design: PR: EEE 3342C. Hardware description languages, simulation and synthesis of RTL circuits and systems, design examples and projects. <i>Occasional.</i> M&S fee: \$5.00</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 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></p>	<p>EEL 4791 ECS-ECE 3(2,4) Telemetry and Space Computer Systems: PR: EEL 3552C and EEL 3801C, EEL 3657, EEE 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></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 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</p>	<p>EEL 4817H ECS-ECE 3(3,0) Honors Current Topics in Machine Learning II: PR: Consent of Honors and EEL 4818H. Research topics in Machine Learning. Students will be assigned a research project and a faculty mentor who will supervise this project. <i>Spring.</i></p>	<p>EEL 5245C ECS-ECE 3(2,1) Power Electronics: PR: EEE 4309C. Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cyclo-converters, applications. <i>Fall.</i></p>
<p>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></p>	<p>EEL 4818H ECS-ECE 3(3,0) Honors Current Topics in Machine Learning I: PR: Consent of Honors and EEL 3801 or COP 3223 or STA 3032 or C.I. Machine Learning and Applications. ART Neural Networks, Genetic Algorithms, Decision Trees, Evolutionary Hardware, Evolutionary Neural Networks, and Reinforcement Learning. <i>Fall.</i></p>	<p>EEL 5272 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 4512C ECS-ECE 4(3,3) Communication Systems: PR: STA 3032, EEL 3552C and EEE 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise. <i>Occasional.</i> M&S fee: \$15.00</p>	<p>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></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 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</p>	<p>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</p>	<p>EEL 5437C ECS-ECE 4(3,3) Microwave Engineering: PR: EEL 3470 or C.I. Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements. <i>Even Fall.</i> M&S fee: \$15.00</p>
<p>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></p>	<p>EEL 4872 ECS-ECE 3(3,0) Engineering Applications of Intelligent Systems: PR: EEL 4851C or COP 3503C or equivalent or C.I. Knowledge and intelligence, predicate logic and automated reasoning, heuristic search, knowledge representation, automated planning, introduction to machine learning, knowledge-based systems and philosophy of AI. <i>Occasional.</i></p>	<p>EEL 5439C 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 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></p>	<p>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></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 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</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 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></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. *Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Spring.*

EEL 5625 ECS-ECE 3(3,0)
Applied Control Systems: PR: C.I. Designed to develop basic understanding of advanced control methods for nonlinear systems described by ordinary and partial differential equations and to expose recent results and ongoing research issues in the area of MEMS. *Occasional.*

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. *Fall.*

EEL 5669 ECS-ECE 3(3,0)
Autonomous Robotic Systems: PR: EEL 3657 or C.I. Introduction to robotics, with emphasis on kinematics, dynamics, trajectory planning, regulation and tracking, formation control, and cooperative rules and behaviors of robotic vehicles. *Odd Fall.*

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. *Occasional.*

EEL 5722C ECS-ECE 3(3,1)
Field-Programmable Gate Array (FPGA) Design: PR: EEL 3342C or C.I. FPGA architectures, design flow, technology mapping, placement, routing, reconfigurable computing applications, and evolvable hardware. *Even Fall.*

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. *Occasional.* M&S fee: \$5.00

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). *Even Spring.*

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. *Odd Spring.*

EEL 5825 ECS-ECE 3(3,0)
Pattern Recognition: PR: EGN 3420 or C.I. Preliminaries of pattern recognition, Bayesian Decision Theory, linear discriminant functions, Neural Network approaches, decision tree classifiers, unsupervised learning and clustering, non-parametric techniques, and other topics reflecting the state-of-the-art. *Occasional.*

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. *Occasional.*

EEL 5874 ECS-ECE 3(3,0)
Expert Systems and Knowledge Engineering: PR: EEL 4872 or CAP 4630 C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented. *Spring.*

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. *Fall, Spring.*

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. *Odd Spring.*

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. *Occasional.*

EES 4111C ECS-CEE 3(2,3)
Biological Process Control: PR: Grade of "C" (2.0) or better in ENV 3001; CR: ENV 4561. Engineering design, measurements and analysis of biological systems in environmental engineering for water management, bio-energy products, wastewater treatment, and others. *Spring.* M&S fee: \$45.00

EES 4202C ECS-CEE 3(2,3)
Chemical Process Control: PR: Grade of "C" (2.0) or better in 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. *Fall.* M&S fee: \$45.00

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. *Occasional.*

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. *Occasional.*

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. *Occasional.* M&S fee: \$10.00

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. *Occasional.* M&S fee: \$10.00

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. *Occasional.*

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. *Occasional.*

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. *Spring.*

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. *Fall.* M&S fee: \$10.00

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. *Occasional.* M&S fee: \$10.00

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. *Occasional.*

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. *Occasional.*

EET 4548C ECS-ENT 4(3,2)
Power Systems: PR: EET 3085C and 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. *Fall.*

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. *Spring.* M&S fee: \$10.00

EEX 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. *Fall, Spring.*

EEX 2090 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. *Fall, Even Spring.*

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. *Fall, Spring.*

UCF Courses and Descriptions

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. *Occasional.*

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. *Fall, Spring.*

EEX 3241 ED-CFCS 3(3,0)
Methods for Academic Skills for Exceptional Students: PR: EEX 2010, EEX 3861. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I. *Fall, Spring.*

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. *Spring.*

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. *Spring.*

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. *Occasional.*

EEX 3861 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. *Occasional.*

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. *Fall, Spring.*

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. *Spring.*

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. *Occasional.*

EEX 4070 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. *Fall, Spring.*

EEX 4242 ED-CFCS 3(3,0)
Teaching Exceptional Students in Secondary Settings: PR: EDF 2085, EDG 4323. Instructional and management strategies for secondary general education teachers to use in working with students with disabilities. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall.*

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. *Spring.*

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. *Occasional.*

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. *Fall, Spring.*

EGM 3601L ECS-MMAE 2(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. *Fall, Spring.* M&S fee: \$15.00

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. *Fall.* M&S fee: \$5.00

EGN 1007C ECS-ECS 1(1,2)
Engineering Concepts and Methods: PR: EGN 1006C and New student status or C.I. 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. *Spring.* M&S fee: \$5.00

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.* M&S fee: \$10.00

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Fall, Spring.*

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 analyses of structures. *Fall, Spring.*

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. *Fall.*

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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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

EGN 3343H ECS-MMAE 3(3,0)
Thermodynamics Honors: PR: Honors status; CR: EGN 3321 or EGN 3321H, & MAP 2302. Work, heat, and energy transformations. Relation of properties. Laws, concepts, and modes of analysis common to all applications of thermodynamics in engineering. Honors content. *Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

EGN 4300C ECS-ENT 3(2,2)
Hydrogen Production and Handling: PR: CHM 1032, CHM 1032L, and PHY 2053C. Basic concepts and principles of hydrogen technologies to include properties, usage, safety, storage and production. *Even Fall.*

EGN 4412C ECS-MMAE 3(1,5)
Interdisciplinary Design I: PR: Industrial: EIN 4364C; Comp and Elect: EEE 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. *Fall.*

EGN 4413C ECS-MMAE 3(1,5)
Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I. May be repeated for credit. *Spring.*

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. *Fall, Spring.*

EGN 4641C ECS-ECS 3(2,2)
Engineering Entrepreneurship: PR: Senior standing, GEB 4152, or C.I. All aspects of a successful engineering entrepreneurship enterprise. Content includes lectures, case studies, and seminars. Active student participation. Course material is augmented through seminars given by engineers, business people, and specialists, based on their own experiences. *Occasional.*

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. *Occasional.*

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 4730 ECS-ENT 3(3,0)
Renewable Energy Systems: PR: ETM 4220. Well-to-wheels analysis, lifecycle energy and emissions, total cost. Skill sets, methodologies and tool kits needed to analyze various technologies on a consistent basis for a given application. *Even Fall.*

EGN 4731C ECS-ENT 3(2,2)
Fuel Cell Technologies: PR: CHM 1032, CHM 1032L, PHY 2053C and MAC 2253 or MAC 2311. Basic concepts and principles of fuel cell technologies to include chemistry, thermodynamics, electrochemistry, cell components and operating conditions. *Even Spring.*

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 Lockheed Martin UCF Teaching 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: EIN 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

UCF Courses and Descriptions

<p>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. <i>Fall</i>.</p>	<p>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). <i>Occasional</i>. M&S fee: \$45.00</p>	<p>EIN 5392C ECS-IEMS 3(2,2) 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</p>
<p>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. <i>Fall</i>.</p>	<p>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. <i>Spring</i>. M&S fee: \$15.00</p>	<p>EIN 5607C ECS-IEMS 3(2,2) 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</p>
<p>EIN 4192C ECS-IEMS 2(2,2) Engineering Leadership Seminar II: PR: EIN 4191C. Continuation of EIN 4191C. <i>Spring</i>.</p>	<p>EIN 5108 ECS-IEMS 3(3,0) The Environment of Technical Organizations: PR: Graduate status or CI; 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. <i>Fall</i>.</p>	<p>EIN 5936 ECS-IEMS 1(1,0) 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>.</p>
<p>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. <i>Occasional</i>.</p>	<p>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. <i>Spring</i>.</p>	<p>ELD 4011 ED-CFCS 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>.</p>
<p>EIN 4243C ECS-IEMS 3(2,2) Human Engineering: PR: EIN 3000 and Junior standing or C.I. Man/machine systems: design and conduct of human engineering studies. <i>Spring</i>. M&S fee: \$20.00</p>	<p>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. <i>Fall, Spring</i>.</p>	<p>ELD 4241 ED-CFCS 4(4,0) 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>.</p>
<p>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. <i>Spring</i>. M&S fee: \$20.00</p>	<p>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. <i>Fall</i>. M&S fee: \$20.00</p>	<p>ELD 4242 ED-CFCS 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>.</p>
<p>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. <i>Spring</i>. M&S fee: \$20.00</p>	<p>EIN 5251 ECS-IEMS 3(3,0) Usability Engineering: PR: STA 3032 or equivalent. Usability paradigms/principles; cognitive walk-throughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques; query techniques; laboratory techniques; and field study approaches. <i>Occasional</i>.</p>	<p>EMA 1002 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>EIN 4391C ECS-IEMS 3(2,3) Manufacturing Engineering: PR: CHM 2045C or CHS 1440 and Junior Standing or C.I. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. <i>Fall, Spring</i>. M&S fee: \$20.00</p>	<p>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. <i>Fall, Spring</i>.</p>	<p>EMA 3000 ECS-MMAE 3(3,0) Engineering Polymeric, Ceramic, and Composite Materials: PR: EGN 3365. Structure, properties, processing of engineering polymeric, ceramic, and composite materials. <i>Occasional</i>.</p>
<p>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. <i>Even Spring</i>.</p>	<p>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. <i>Fall</i>.</p>	<p>EMA 3012C ECS-MMAE 3(2,2) 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</p>
<p>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. <i>Fall</i>. M&S fee: \$20.00</p>	<p>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. <i>Occasional</i>.</p>	<p>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>.</p>
<p>EIN 4517 ECS-IEMS 3(3,0) Systems Engineering: PR: STA 2023 or STA 3032 and Senior Standing or C.I. Fundamental principles of systems engineering and their application to the development of industrial complex engineered systems. <i>Fall</i>.</p>	<p>EIN 5356 ECS-IEMS 3(3,0) Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle. <i>Spring</i>.</p>	<p>EMA 3124 ECS-MMAE 3(3,0) 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>.</p>
<p>EIN 4545C ECS-IEMS 3(2,2) Industrial Engineering Applications in The Service Industries: PR: EIN 3314C, ESI 4312, ESI 4234 or CI. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc. <i>Even Fall</i>.</p>	<p>EIN 5368C ECS-IEMS 3(2,2) 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</p>	<p>EMA 3691 ECS-MMAE 3(3,0) 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>.</p>
	<p>EIN 5388 ECS-IEMS 3(3,0) Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages. <i>Occasional</i>.</p>	

EMA 3706 ECS-MMAE 3(3,0)
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. *Fall.*

EMA 4102 ECS-MMAE 3(3,0)
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. *Fall.*

EMA 4103 ECS-ENT 3(3,0)
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. *Occasional.*

EMA 4223 ECS-MMAE 3(3,0)
Fundamentals of Mechanical Behavior of Materials: PR: EGN 3601, and EGN 3365 or EMA 3706. Elementary treatment of elasticity, plasticity, viscoelasticity, creep, fracture, and fatigue. *Spring.*

EMA 4413 ECS-MMAE 3(3,0)
Fundamentals of Electronic Materials: PR: EGN 3365. Electronic processes in solids. Electrical, magnetic, and optical properties of solids. Electron energies in solids. Superconducting materials. *Spring.*

EMA 4501 ECS-MMAE 3(2,2)
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. *Occasional.*

EMA 4503 ECS-MMAE 3(3,0)
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. *Occasional.*

EMA 4506 ECS-MMAE 3(3,0)
Emerging Materials: PR: EGN 3365, or EMA 3706. Structure, properties and processing of modern emerging materials. *Occasional.*

EMA 4606 ECS-MMAE 3(3,0)
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. *Occasional.*

EMA 4701C ECS-MMAE 3(2,4)
Materials Performance in Space Applications: PR: EGN 3365. Laboratory failure analysis of materials within space-related environments. *Occasional.*

EMA 5060 ECS-MMAE 3(3,0)
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. *Occasional.*

EMA 5104 ECS-MMAE 3(3,0)
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. *Fall.*

EMA 5106 ECS-MMAE 3(3,0)
Metallurgical Thermodynamics: PR: EGN 3365. Laws of thermodynamics, phase equilibria, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams. *Occasional.*

EMA 5108 ECS-MMAE 3(3,0)
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. *Occasional.*

EMA 5140 ECS-MMAE 3(3,0)
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. *Occasional.*

EMA 5317 ECS-MMAE 3(3,0)
Materials Kinetics: PR: C.I. Mass and thermal transport, phase transformations and Arrhenius rate processes. *Occasional.*

EMA 5326 ECS-MMAE 3(3,0)
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. *Occasional.*

EMA 5415 ECS-MMAE 3(3,0)
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. *Fall.*

EMA 5504 ECS-MMAE 3(2,2)
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. *Occasional.*

EMA 5505 ECS-MMAE 3(2,2)
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. *Occasional.*

EMA 5517 ECS-MMAE 3(2,2)
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. *Occasional.*

EMA 5584 ECS-MMAE 3(3,0)
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. *Even Spring.*

EMA 5585 ECS-MMAE 3(3,0)
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. *Odd Fall.*

EMA 5586 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. *Occasional.*

EMA 5587C ECS-MMAE 3(2,2)
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. *Occasional.*

EMA 5588 ECS-MMAE 3(3,0)
Biocompatibility of Materials: PR: EGN 3365 or C.I. Biocompatibility and bioactivity; cell-biomaterials interactions; engineering bone and cartilage; soft-tissue replacements; total hip replacements; nanostructured biomaterials, imaging techniques, preservation techniques for biomaterials, MSDS and FDA compatibility data. *Occasional.*

EMA 5610 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. *Occasional.*

EMA 5705 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. *Occasional.*

EME 2040 ED-ERTL 3(3,0)
Introduction to Technology for Educators: Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues. *Fall, Spring.* M&S fee: \$1.00

EME 2041 ED-ES 3(3,0)
Introduction to Applications of Technology in Education: Classroom applications of instructional media including computers. *Occasional.*

EME 4312 ED-ERTL 3(3,0)
Applications of Technology in Education: Classroom applications of instructional media. Including computers. Includes experiences with equipment, commercial and teacher-made media, and their uses. *Occasional.*

EME 5050 ED-ERTL 3(3,0)
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. *Fall, Spring.*

EME 5051 ED-ERTL 3(3,0)
Technologies of Instruction and 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. *Fall.*

EME 5053 ED-ERTL 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. *Fall.*

EME 5057 ED-ERTL 3(3,0)
Communication for Instructional Systems—Application: Applications of technology, communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction. *Occasional.*

EME 5208 ED-ERTL 3(3,0)
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. *Spring.*

UCF Courses and Descriptions

<p>EME 5225 ED-ERTL 3(3,0) 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></p>	<p>EML 4024C ECS-MMAE 3(2,2) 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</p>	<p>EML 4501C ECS-MMAE 3(1,6) Engineering Design I: PR: EML 3500, EML 3701 and EML 3303C, CR: EML 4312C, EML 4991. 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</p>
<p>EME 5810 ED-ERTL 1(1,0) 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></p>	<p>EML 4142 ECS-MMAE 3(3,0) 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></p>	<p>EML 4502C ECS-MMAE 3(1,6) Engineering Design II: PR: EML 4501C, EML 4991. 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</p>
<p>EML 3001C ECS-MMAE 1(1,2) 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</p>	<p>EML 4145 ECS-MMAE 2(2,0) 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></p>	<p>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. <i>Fall, Spring.</i> M&S fee: \$15.00</p>
<p>EML 3034C ECS-MMAE 3(3,1) Modeling Methods in Mechanical and Aerospace Engineering: PR: "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 and EAS 3990 or EML 3990. 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></p>	<p>EML 4220 ECS-MMAE 3(3,0) 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></p>	<p>EML 4600 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EGN 3343; CR: EML 3701, EML 3101. Heating, ventilation, air-conditioning, and refrigeration principles and systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems. <i>Fall.</i></p>
<p>EML 3101 ECS-MMAE 3(3,0) 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></p>	<p>EML 4221C ECS-MMAE 2(1,2) Mechanical Systems Experimental Techniques: PR: EML 3303C, EML 4220. Vibration concepts and associated experiments. Vibration testing techniques. Transducers and exciters considerations. Modal analysis and testing. Data analysis and interpretation. <i>Fall.</i></p>	<p>EML 4602 ECS-MMAE 3(3,0) Applied HVAC Engineering: PR: EML 4600, CR: EML 4142. Applications of HVAC systems design with the objective of optimizing energy efficiency, humidity control, ventilation, and indoor air quality. Dehumidification performance of the various HVAC system types and their interactions with the building. <i>Spring.</i></p>
<p>EML 3262 ECS-MMAE 3(3,0) 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></p>	<p>EML 4260 ECS-MMAE 3(3,0) 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></p>	<p>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. <i>Fall.</i></p>
<p>EML 3303C ECS-MMAE 3(2,3) 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</p>	<p>EML 4264 ECS-MMAE 3(3,0) 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></p>	<p>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. <i>Spring.</i> M&S fee: \$15.00</p>
<p>EML 3500 ECS-MMAE 3(3,0) Machine Design and Analysis: PR: EGM 3601. Application of the principles of mechanics of materials to the design of mechanical elements. <i>Spring.</i></p>	<p>EML 4293 ECS-MMAE 3(3,0) 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></p>	<p>EML 4991 ECS-MMAE 0(0,0) Mechanical Career and Academic Faculty Advising II: PR: EML 3990; CR: EML 4312C. Mandatory meeting with students and their faculty advisor for career/academic advising. Graded S/U. <i>Fall, Spring.</i></p>
<p>EML 3701 ECS-MMAE 3(3,0) 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></p>	<p>EML 4304C ECS-MMAE 2(1,3) Design of Thermo-Fluid Experiment: PR: EML 3303C, CR: EML 4142, EML 4220. Measurements and experiments in Thermo-Fluids systems with emphasis on project team activity. <i>Spring.</i> M&S fee: \$45.00</p>	<p>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. <i>Fall.</i></p>
<p>EML 3990 ECS-MMAE 0(0,0) Mechanical Career and Academic Faculty Advising I: PR: MAP 2302. Mandatory meeting with students and their faculty advisor for career/academic advising. Graded S/U. <i>Fall, Spring.</i></p>	<p>EML 4312C ECS-MMAE 3(2,3) 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></p>	<p>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. <i>Occasional.</i></p>
<p>EML 4005 ECS-MMAE 3(3,0) 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></p>	<p>EML 4411 ECS-MMAE 3(3,0) 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></p>	<p>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. <i>Occasional.</i></p>
	<p>EML 4454 ECS-MMAE 3(3,0) Turbines for Sustainable Power: PR: EGM 3601, EGN 3365 or EMA 3706, EML 3701 or EAS 3101, EML 4142; CR: EML 4220 or EAS 4210. Multidisciplinary aspects of turbine design for sustainable power generation including aerodynamics to combustion and emissions to reliability; covers multiple applications of conventional and green technologies. <i>Occasional.</i></p>	

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 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 and Micromachining: PR: Graduate standing or C.I. Introduction of Micro-Electro-Mechanical-Systems (MEMS) and micromachining (micro-fabrication) 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, and 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.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

ENC 3211 CAH-ENG 3(3,0)
Theory and Practice of Technical Writing: PR: Grade of C (2.0) or better required in ENC 1102, junior standing, or C.I. Exploring definitions and theoretical foundations in technical writing field, and the roles of writers in industry. *Fall, Spring.*

UCF Courses and Descriptions

ENC 3211H CAH-ENG 3(3,0) Honors Theory and Practice of Technical Writing: PR: Grade of C (2.0) or better in ENC 1102H or equivalent credit, and Consent of Honors. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies. With Honors Content. <i>Occasional.</i>	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>	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>
ENC 3241 CAH-ENG 3(3,0) Writing for the Technical Professional: PR: Grade of C (2.0) or better in ENC 1102, junior standing, or C.I. Writing effective correspondence, instructions, proposals, and informal and formal reports. <i>Fall, Spring.</i>	ENC 4280 CAH-ENG 3(3,0) Technical Writing Style: PR: Grade of C (2.0) or better required in 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>	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>
ENC 3241H CAH-ENG 3(3,0) Honors Writing for the Technical Professional: PR: Grade of C (2.0) or better required in ENC 1102H or equivalent credit, and Consent of Honors. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience. With Honors content. <i>Occasional.</i>	ENC 4290 CAH-ENG 3(3,0) Usability Testing for Technical Communication: PR: Grade of C (2.0) or better required in ENC 4293 or C.I. Usability theory and techniques for evaluating manuals, online documentation, and other technical communication genres. <i>Occasional.</i>	ENC 5276 CAH-ENG 3(3,0) Writing/Consulting: Theory and 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>
ENC 3250 CAH-ENG 3(3,0) Professional Writing: PR: Grade of C (2.0) or better required in 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>	ENC 4293 CAH-ENG 3(3,0) Documentation and the Collaborative Process: PR: Grade of C (2.0) or better required in 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>	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>
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>	ENC 4294 CAH-ENG 3(3,0) Documentation and Client-Based Collaboration: PR: Grade of C (2.0) or better required in 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	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>
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>	ENC 4312 CAH-ENG 3(3,0) Theory & Practice Persuasive Writing: PR: Grade of C (2.0) or better required in ENC 1102. A study of the theory and practice of persuasion, including logical emotional and ethical appeals. <i>Occasional.</i>	ENC 5705 CAH-ENG 3(2,1) 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>
ENC 3905 CAH-ENG 3(3,0) Directed experience in Writing: PR: Grade of C (2.0) or better required in ENC 1102 and C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit. <i>Occasional.</i>	ENC 4313 CAH-ENG 3(3,0) Research Writing: PR: Grade of C (2.0) or better in ENC 1102, junior standing, and C.I. Writing correspondence, instructions, proposals, and informal and formal reports in various disciplines. <i>Occasional.</i>	ENC 5745 CAH-ENG 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>
ENC 3942 CAH-ENG 3(3,0) Journal Writing Practicum: PR: Grade of C (2.0) or better required in ENC 1102. An interdisciplinary practicum in journal writing as a literary genre and a means of self-expansion. <i>Occasional.</i>	ENC 4360 CAH-ENG 3(3,0) Nature Writing: PR: Grade of C (2.0) or better required in CRW 3013. English major or minor and junior standing, 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>	ENC 5930 CAH-ENG 3(3,0) 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>
ENC 4215 CAH-ENG 3(3,0) Technical Publication and Project Management: PR: Grade of C (2.0) or better required in 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 boardwork. <i>Spring.</i> M&S fee: \$10.00	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>	ENG 3010 CAH-ENG 3(3,0) 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>
ENC 4218 CAH-ENG 3(3,0) The Visual in Technical Documentation: PR: Grade of C (2.0) or better required in ENC 4293. Relevant theories of the visual and their application to technical communication practice. <i>Fall.</i> M&S fee: \$10.00	ENC 4415 CAH-ENG 3(3,0) Digital Rhetorics and The Modern Dialectic: PR: Grade of C (2.0) or better required in 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>	ENG 3014 CAH-ENG 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>
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>	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>	ENG 3073 CAH-ENG 3(3,0) Cultural Studies Literature: PR: Grade of C (2.0) or better required in 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>
ENC 4265 CAH-ENG 3(3,0) Writing for the Computer Industry: PR: Grade of C (2.0) or better in 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>	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>	ENG 4114 CAH-ENG 3(3,0) Literature and Film: PR: Grade of C (2.0) or better required in ENG 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations. <i>Occasional.</i>

UCF Courses and Descriptions

ENG 4614	CAH-ENG	3(3,0)	Discourse of Global Cultural Studies: PR: ENG 3014. American popular culture texts in world context, using concepts and theories from global cultural studies to analyze transmission, translation, and appropriation. <i>Occasional.</i>	ENL 4253	CAH-ENG	3(3,0)	The Victorian Age: Poetry: PR: Grade of C (2.0) or better required in ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossettis, and Emily Bronte. <i>Occasional.</i>	ENV 4008C	ECS-CEE	3(2,2)	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 5009	CAH-ENG	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>	ENL 4262	CAH-ENG	3(3,0)	Nineteenth Century British Prose: PR: Grade of C (2.0) or better required in ENG 3014. Essays and fiction of the nineteenth century. <i>Occasional.</i>	ENV 4112C	ECS-CEE	3(2,2)	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 5018	CAH-ENG	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>	ENL 4273	CAH-ENG	3(3,0)	Modern British Literature: PR: Grade of C (2.0) or better required in ENG 3014. Major writers of modern British literature. <i>Occasional.</i>	ENV 4120	ECS-CEE	3(3,0)	Air Pollution Control: PR: EGN 3343, CWR 3201, and ENV 3001 with a grade of "C" (2.0) or better. Air resources management, engineering design, and operation of air pollution control systems. <i>Fall.</i>
ENL 2012	CAH-ENG	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>	ENL 4303	CAH-ENG	3(3,0)	British Authors: PR: ENG 3014. Study of the works of a single British author. May be used in the degree program a maximum of 2 times only when course content is different. <i>Occasional.</i>	ENV 4122C	ECS-CEE	3(2,2)	Air Pollution Control Design: PR: ENV 4120. Project course on design of air pollution control equipment and systems. <i>Spring.</i> M&S fee: \$15.00
ENL 2022	CAH-ENG	3(3,0)	English Literature II: PR: Grade of C (2.0) or better required in ENC 1102. From 1798 to 1914. <i>Fall, Spring.</i>	ENL 4311	CAH-ENG	3(3,0)	Chaucer: PR: Grade of C (2.0) or better required in ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works. <i>Occasional.</i>	ENV 4300C	ECS-CEE	3(2,2)	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
ENL 3231	CAH-ENG	3(3,0)	Restoration Literature: PR: Grade of "C" or better in ENC 1102. This course surveys the poetry, drama, and prose written during the Restoration era (1660-1700) and the social, historical, and political contexts. <i>Occasional.</i>	ENL 4333	CAH-ENG	3(3,0)	Shakespeare Studies: PR: Grade of C (2.0) or better required in ENG 3014. Reading, analysis, and discussion of Shakespeare's plays. May be repeated for credit. <i>Occasional.</i>	ENV 4341	ECS-CEE	4(4,0)	Solid & Hazardous Waste Management: PR: Grade of "C" (2.0) or better in ENV 3001. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes. <i>Fall.</i>
ENL 3296	CAH-ENG	3(3,0)	Gothic Literature: PR: Grade of "C" or better required in ENC 1102. A study of Gothic literature (prose, poetry, drama) in the British Isles and its cultural contexts. <i>Occasional.</i>	ENL 4341	CAH-ENG	3(3,0)	Milton and His Age: PR: Grade of C (2.0) or better required in ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes, shorter poems and selected prose. <i>Occasional.</i>	ENV 4432	ECS-CEE	3(3,0)	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 3654	CAH-ENG	3(3,0)	Black British Literature: PR: Grade of "C" or better required in ENC 1102. Study of literature written inside the UK by authors of African, South Asian, and Caribbean lineage. <i>Occasional.</i>	ENL 5006	CAH-ENG	3(3,0)	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>	ENV 4531	ECS-CEE	3(3,0)	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 3951	CAH-ENG	3(3,0)	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>	ENL 5237	CAH-ENG	3(3,0)	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>	ENV 4561	ECS-CEE	4(4,0)	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 3951H	CAH-ENG	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>	ENL 5250	CAH-ENG	3(3,0)	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>	ENV 4562C	ECS-CEE	3(2,2)	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 4101	CAH-ENG	3(3,0)	English Novel: PR: Grade of C (2.0) or better required in ENG 3014. Analysis of major English novelists. <i>Occasional.</i>	ENL 5256	CAH-ENG	3(3,0)	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>	ENV 4563	ECS-CEE	3(3,0)	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 4220	CAH-ENG	3(3,0)	English Renaissance Poetry and Prose: PR: Grade of C (2.0) or better required in 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>	ENL 5335	CAH-ENG	3(3,0)	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)	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>
ENL 4230	CAH-ENG	3(3,0)	18th Century Studies: PR: Grade of C (2.0) or better required in ENG 3014. Reading, analysis, and discussion of literature in English: 1660-1880. May be repeated for credit. <i>Occasional.</i>	ENL 5347	CAH-ENG	3(3,0)	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>	ENV 5116C	ECS-CEE	3(2,3)	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
ENL 4240	CAH-ENG	3(3,0)	English Romantic Writers: PR: Grade of C (2.0) or better required in 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>	ENV 3001	ECS-CEE	3(3,0)	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. <i>Fall, Spring.</i>				

UCF Courses and Descriptions

ENV 5334 ECS-CEE 3(3,0)
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. *Occasional.*

ENV 5335 ECS-CEE 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. *Occasional.*

ENV 5356 ECS-CEE 4(4,0)
Solid and Hazardous Waste Management: PR: Grade of "C" (2.0) or better in ENV 3001. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes. *Fall.*

ENV 5410 ECS-CEE 3(3,0)
Drinking Water Treatment: PR: ENV 4561. Drinking water treatment using existing and newly developed processes. Fe, Mn, As, NO₃, DBP₃, SOC₃ and other contaminants using oxidation, membranes, ion exchange, precipitation, sorption, and other processes. *Occasional.*

ENV 5505 ECS-CEE 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. *Occasional.*

ENV 5517 ECS-CEE 3(3,0)
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. *Fall.*

ENV 5636 ECS-CEE 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. *Occasional.*

ENV 4004C COS-BIOL 4(2,6)
General Entomology: PR: BSC 2010C and BSC 2011C, or C.I. Biology of insects: identification, taxonomy, physiology, behavior, and ecology. *Occasional.* M&S fee: \$15.00

ENV 5006C COS-BIOL 4(2,6)
Entomology: PR: BSC 2010C and BSC 2011C and graduate standing or C.I. Morphology, physiology, ontogeny, behavior, ecology and population biology of insects. *Occasional.* M&S fee: \$40.00

EPH 5395 ED-CFCS 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. *Occasional.*

ESE 3940 ED-TLP 3-16(0,3-16)
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. *Occasional.*

ESE 4942 ED-TLP 1(1,0)
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. *Fall, Spring.*

ESE 4943 ED-TLP 7-12(0,35)
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. *Occasional.*

ESE 5214 ED-TLP 3(3,0)
Secondary School Curriculum Improvement I: PR: Regular Certificate or C.I. Secondary School self studies for curriculum projects, accreditation reports, or staff development. *Occasional.*

ESI 4221 ECS-IEMS 3(3,0)
Empirical Methods for Industrial Engineering: PR: STA 3032. Application of empirical methods for industrial engineering problem solving. *Spring.*

ESI 4234 ECS-IEMS 3(3,0)
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. *Fall.*

ESI 4312 ECS-IEMS 3(3,0)
Operations Research: PR: STA 3032. Introduction to linear, non-linear, and dynamic programming. Decision analysis, random processes, and queueing. Course covers theory through application and implementation of results. *Fall.*

ESI 4321 ECS-IEMS 3(3,0)
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. *Even Fall.*

ESI 4523C ECS-IEMS 3(2,3)
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. *Spring.* M&S fee: \$20.00

ESI 4628C ECS-IEMS 3(2,3)
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. *Fall.* M&S fee: \$20.00

ESI 5219 ECS-IEMS 3(3,0)
Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, non-parametric stats and ANOVA. *Fall, Spring.*

ESI 5227 ECS-IEMS 3(3,0)
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. *Odd Fall.*

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. *Fall.*

ESI 5306 ECS-IEMS 3(3,0)
Operations Research: PR: STA 3032. Methods of operations research, including formulation for models and derivation of solutions; linear programming, network models queueing theory, simulation, and nonlinear optimization techniques. *Fall.*

ESI 5359 ECS-IEMS 3(3,0)
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. *Occasional.*

ESI 5419C ECS-IEMS 3(2,2)
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 analyses. *Odd Fall.* M&S fee: \$45.00

ESI 5531 ECS-IEMS 3(3,0)
Discrete Systems Simulation: PR: STA 3032. Methods for performing discrete systems simulation, including network modeling, will be treated. *Spring.*

EST 3211 ECS-ENT 3(3,0)
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. *Spring.*

EST 3213 ECS-ENT 3(3,0)
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. *Fall.*

EST 3222 ECS-ENT 3(3,0)
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. *Fall.*

EST 3543C ECS-ENT 3(2,2)
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. *Fall, Spring.*

EST 4225 ECS-ENT 3(3,0)
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. *Fall.*

EST 4227 ECS-ENT 3(3,0)
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. *Spring.*

EST 4236 ECS-ENT 3(3,0)
Laser Systems Technology: PR: EST 3222. The theory of light amplification using gas, solid-state, and semi-conductor lasers. *Fall.*

EST 4256 ECS-ENT 3(3,0)
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. *Spring.*

EST 4502C ECS-ENT 4(3,2)
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. *Spring.* M&S fee: \$10.00

UCF Courses and Descriptions

ETC 4206	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>
ETC 4241C	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>
ETC 4242	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>
ETC 4243	ECS-ENT	4(4,0)	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>
ETC 4414C	ECS-ENT	3(2,2)	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>
ETC 4415C	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>
ETD 3350C	ECS-ENT	3(2,2)	Applied CADD: PR: Junior Standing. 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>
ETG 3533C	ECS-ENT	4(3,2)	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
ETG 3541	ECS-ENT	3(3,0)	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>
ETG 4950C	ECS-ENT	3(1,4)	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>
ETG 5918	ECS-ENT	3(3,0)	Applied Research Methods: PR: Graduate standing or C.I. Broad overview of applied research methods from the literature review process to the investigation, modeling, experimental design, analysis of results, and technical reports. <i>Fall.</i>
ETI 3116	ECS-ENT	3(3,0)	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>
ETI 3418C	ECS-ENT	3(2,2)	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>
ETI 3421	ECS-ENT	3(3,0)	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>
ETI 3651C	ECS-ENT	3(2,2)	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>
ETI 3671	ECS-ENT	3(3,0)	Technical Economic Analysis: PR: MAC 1105 or equivalent. Analysis of cost elements in technical operations. Basis for comparison of alternatives. <i>Spring.</i>
ETI 3690	ECS-ENT	3(3,0)	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>
ETI 4150	ECS-ENT	3(3,0)	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>
ETI 4186	ECS-ENT	3(3,0)	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>
ETI 4205	ECS-ENT	3(3,0)	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>
ETI 4381	ECS-ENT	3(3,0)	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>
ETI 4382C	ECS-ENT	3(1,4)	Launch Processing Technology: PR: or CR: ETI 4150 or CI. 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>
ETI 4448	ECS-ENT	3(3,0)	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>
ETI 4480C	ECS-ENT	3(2,2)	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>
ETI 4635	ECS-ENT	3(3,0)	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>
ETI 4640	ECS-ENT	3(3,0)	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>
ETI 4661C	ECS-ENT	3(2,2)	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>
ETI 4700	ECS-ENT	3(3,0)	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>
ETI 4835	ECS-ENT	3(3,0)	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>
ETI 4836	ECS-ENT	3(3,0)	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>
ETI 4837C	ECS-ENT	3(2,2)	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
ETI 4838	ECS-ENT	3(3,0)	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>
ETI 4839	ECS-ENT	3(3,0)	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>
ETM 4220	ECS-ENT	4(4,0)	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>
ETM 4231C	ECS-ENT	4(3,2)	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>

UCF Courses and Descriptions

ETM 4331C	ECS-ENT	4(3,2)	EUH 3281	CAH-HIST	3(3,0)	EUH 4465	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>			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>		
ETM 4403C	ECS-ENT	3(2,2)	EUH 3315	CAH-HIST	3(3,0)	EUH 4500	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 to 1485: 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 4501	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>			English History: 1485-1815: 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 4502	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>			British History: 1815-Present: PR: EUH 2000 and 2001 or C.I. <i>Occasional.</i>		
EUH 2000	CAH-HIST	3(3,0)	EUH 3431H	CAH-HIST	3(3,0)	EUH 4571	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 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 2000H	CAH-HIST	3(3,0)	EUH 3451	CAH-HIST	3(3,0)	EUH 4574	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: 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 2001	CAH-HIST	3(3,0)	EUH 3531	CAH-HIST	3(3,0)	EUH 4576	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>			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 2001H	CAH-HIST	3(3,0)	EUH 3536	CAH-HIST	3(3,0)	EUH 4582	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>			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 3122	CAH-HIST	3(3,0)	EUH 3538	CAH-HIST	3(3,0)	EUH 4610	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>			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 3124	CAH-HIST	3(3,0)	EUH 3651	CAH-HIST	3(3,0)	EUH 4610H	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>			Honors Women in European Society: PR: GEP Honors completion or permission of Honors. Interdisciplinary approach to the changing situation of women in Europe across space and over time with honors-level content. <i>Occasional.</i>		
EUH 3142	CAH-HIST	3(3,0)	EUH 4283	CAH-HIST	3(3,0)	EUH 4620	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>			Cold War Homefronts: PR: EUH 2000 and EUH 2001, or C.I. The Cold War from the homefront perspective addressing both sides of the Iron Curtain. <i>Occasional.</i>			European Great Powers: 1815-1914: PR: EUH 2000 and 2001 or C.I. Congress of Vienna, Metternich's system Crimean War, unifications of Italy & Germany, the Bismarckian era, the alliance systems, and the outbreak of World War I. <i>Occasional.</i>		
EUH 3235	CAH-HIST	3(3,0)	EUH 4284	CAH-HIST	3(3,0)	EUH 4663	CAH-HIST	3(3,0)
Romanticism and Realism: PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservation; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism. <i>Occasional.</i>			Fascism and Nazism in the Interwar Europe: PR: EUH 2000 and 2001. Fascist and Nazi movements in interwar Europe, mostly Italy and Germany. Origin, development, seizure of power, system of government, ideology, domestic and foreign policies, resistance to these movements. <i>Occasional.</i>			History of Communism in Europe: PR: EUH 2000 and EUH 2001. History of communist movements and regimes in Europe from mid-19th century to the fall of the Berlin Wall. The course focuses on the history of communism outside of Russia and opposition to the communist regimes. <i>Occasional.</i>		
EUH 3242	CAH-HIST	3(3,0)	EUH 4400	CAH-HIST	3(3,0)	EUH 4674	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>			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>			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>		

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EUH 4674H CAH-HIST 3(3,0) Honors Sports & Society in the Ancient World: PR: GEP Honors completion or permission of Honors. Interdisciplinary approach to comparing the Original Olympic games and other ancient athletic spectacles with their modern counterparts with honors-level content. <i>Occasional.</i>	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>	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>
EUH 5247 CAH-HIST 3(3,0) 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>	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>	EXP 3304 COS-PSYCH 3(3,0) Motivation: PR: PSY 2012. Psychological and physiological aspects of human motivation. <i>Spring.</i>
EUH 5285 CAH-HIST 3(3,0) 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>	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>	EXP 3404 COS-PSYCH 3(3,0) Basic Learning Processes: PR: PSY 2012. Theory and research on learning phenomena. <i>Occasional.</i>
EUH 5371 CAH-HIST 3(3,0) 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>	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>	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>
EUH 5415 CAH-HIST 3(3,0) 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>	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>	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
EUH 5459 CAH-HIST 3(3,0) Colloquium in French History: PR: Graduate standing or C.I. Readings in selected topics in French History. May be used in the degree program a maximum of 3 times. <i>Occasional.</i>	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>	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>
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>	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>	EXP 5254 COS-PSYCH 3(3,0) Human Factors and Aging: PR: Graduate standing, post bac, or senior standing with 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>
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>	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>	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>
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>	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>	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>
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>	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>	FIL 1000 CAH-FILM 3(3,0) Cinema Survey: Introductory course that focuses on different approaches to studying cinema. <i>Fall, Spring.</i>
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>	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>	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>
EVT 3062 ED-TLP 3(3,0) Professional Role of the Vocational Teacher: PR: EVT 3371 or C.I. <i>Occasional.</i>	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>	FIL 1007 CAH-FILM 3(3,0) Foundations of Story: PR: Digital Media or Cinema Studies major, or Cinema Studies minor. Analysis of dramatic and cinematic narrative structures, both plot and character, from historical and cultural perspectives. <i>Fall, Spring.</i>
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>		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: \$5.00

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FIL 1009	CAH-FILM	3(3,0)	Cinematic Expression for Majors: PR: Film BFA or World Cinema major, and FIL 1100 or FIL 1007. Analysis and practice of aesthetic principles essential in film-making, including composition, moving graphics, image design, and lighting styles. <i>Spring.</i>
FIL 1100	CAH-FILM	3(3,0)	Foundations of Story for Majors: PR: Film BFA or World Cinema major. Analysis of dramatic and cinematic narrative structures, both plot and character, from a historical and cultural perspective. <i>Occasional.</i>
FIL 1424	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>
FIL 2030	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: \$0.00
FIL 2107	CAH-FILM	3(3,0)	Script Analysis: PR: PR or CR: ENC 1101, and FIL 1007 or FIL 1100. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional film-making and screenwriting. <i>Fall, Spring.</i>
FIL 2423	CAH-FILM	3(3,0)	Foundations of Production: PR: Digital Media or Cinema Studies major, or Cinema Studies minor. 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>
FIL 2461	CAH-FILM	3(3,0)	Cinematography I: PR: FIL 2274C and FIL 2480. Concepts and tools of cinematography and lighting. <i>Fall.</i> M&S fee: \$5.00
FIL 2480	CAH-FILM	3(3,0)	Directing for Film I: PR: FIL 1007 or FIL 1100, FIL 1009, FIL 3115, and FIL 3427C. Introduction to processes and techniques of film directing. <i>Spring.</i>
FIL 2481	CAH-FILM	3(3,0)	Directing the Actor for Film I: PR: Film BFA or World Cinema major. Developing an ability to direct and work with film actors effectively, using various acting and directing techniques. <i>Spring.</i>
FIL 2552	CAH-FILM	3(3,2)	Editing I: PR: Film Major, FIL 1008, FIL 3115, FIL 3427C. Basic editing concepts and techniques, using non-linear editing systems. <i>Spring.</i> M&S fee: \$5.00
FIL 3006	CAH-FILM	3(3,0)	Art of the Cinema: PR: FIL 2030. An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound. <i>Fall, Spring.</i> M&S fee: \$5.00
FIL 3035C	CAH-FILM	3(3,1)	Film Histories II: PR: FIL 2030. Surveys and questions historical approaches to film and seeks to open up the field of historical enquiry to a variety of views. <i>Fall.</i>
FIL 3036	CAH-FILM	3(3,0)	Film History I: PR: FIL 2030, FIL 2107 and Film BFA, World Cinema, or Cinema Studies major. 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 3037	CAH-FILM	3(3,0)	Film History II: PR: FIL 2030, FIL 2107 and Film BFA, World Cinema, or Cinema Studies major. 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 3041	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 3051	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 3070C	CAH-FILM	3(3,1)	Cinema in the 1920s: PR: FIL 3035C. Films of the 1920s as they pertain to the political, social, cultural, and artistic context of the period. <i>Occasional.</i>
FIL 3071C	CAH-FILM	3(3,1)	Cinema in the 1930s: PR: FIL 3035C. Films of the 1930s as they pertain to the political, social, cultural, and artistic context of the period. <i>Occasional.</i>
FIL 3072C	CAH-FILM	3(3,1)	Cinema in the 1940s and 1950s: PR: FIL 3035C. Films of the 1940s and 1950s as they pertain to the political, social, cultural, and artistic context of the period. <i>Occasional.</i>
FIL 3073C	CAH-FILM	3(3,1)	Cinema in the 1960s and 1970s: PR: FIL 3035C. Films of the 1960s and 1970s as they relate to the political, social, cultural, and artistic context of the period. <i>Occasional.</i>
FIL 3074C	CAH-FILM	3(3,1)	Cinema 1980s to the Present: PR: FIL 3035C. Films from the 1980s and onward as they pertain to the political, social, cultural, and artistic context of the period. <i>Occasional.</i>
FIL 3075C	CAH-FILM	3(3,1)	Film and Modernism I: PR: FIL 3035C and ARH 2050. Relation of film to artistic modernism centered on key common practices such as collage, projection, movement, serialization, superimposition, and simultaneity. <i>Spring.</i>
FIL 3076C	CAH-FILM	3(3,1)	Film and Modernism II: PR: FIL 3075C and ARH 2051. A continuation of Film and Modernism I. This course concentrates on specific instances of interaction between film and the other arts such as music, painting, photography, theatre, and video. <i>Fall.</i>
FIL 3102	CAH-FILM	3(3,0)	Writing for Film and TV: PR: Junior standing, ENC 1102, and FIL 1007 or FIL 1100. 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 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 3115	CAH-FILM	3(3,0)	Short Script I: PR: FIL 2107 and Film BFA or World Cinema major, or C.I. 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 3132	CAH-FILM	3(3,0)	Short Script II: PR: FIL 3115 and Film BFA or World Cinema major, or C.I. Advanced writing of short scripts in preparation for Capstone 1 and 2 courses. <i>Spring.</i>
FIL 3304C	CAH-FILM	3(1,3)	Documentary Vision: PR: FIL 3363C. Styles and approaches to documentary filmmaking, with emphasis on making short, personal films. <i>Spring.</i>
FIL 3307	CAH-FILM	3(3,0)	Docudrama: PR: FIL 2107 and Film BFA, World Cinema, or Cinema Studies major, or C.I. Techniques to dramatize real-life events and persons, with emphasis on representation, adaptation and ethics. <i>Occasional.</i>
FIL 3363C	CAH-FILM	3(3,1)	Film Documentary: PR: FIL 3803C and Film BFA, World Cinema, or Cinema Studies major, or C.I. The uses and analysis of the non-fiction film. <i>Fall.</i> M&S fee: \$5.00
FIL 3379C	CAH-FILM	3(3,6)	Advanced Documentary Production: PR: FIL 3363C and FIL 3845, or C.I. Processes and principles of advanced documentary production to capture on-going reality based situations. <i>Occasional.</i> M&S fee: \$5.00
FIL 3427C	CAH-FILM	3(2,4)	Introduction to Film Production: PR: PR or CR: FIL 2107 and Film BFA or World Cinema major. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production. <i>Fall.</i> M&S fee: \$45.00
FIL 3455C	CAH-FILM	6(2,4)	Film Landscapes: Story, Image and Production Design: PR: FIL 2423 or FIL 3427C, and FIL 2030. The use of landscape in film and its importance to the art of production design. <i>Occasional.</i>
FIL 3462C	CAH-FILM	3(3,1)	Cinematic Expression: PR: FIL 3803C. Cinematography using video format: study of fundamentals of motion-picture communication, film structure and storytelling. <i>Spring.</i>
FIL 3483	CAH-FILM	3(3,0)	Directing the Actor for Film II: PR: FIL 2481. Characterization and scene study as it applies to directing the actor for film. <i>Occasional.</i>
FIL 3492C	CAH-FILM	3(3,1)	Performance in Film: PR: FIL 3035C. Study of the different traditions and forms of acting in film. <i>Occasional.</i>
FIL 3534	CAH-FILM	3(3,0)	Sound Design for Film I: PR: Film BFA, World Cinema or Digital Media major. Technical and aesthetics aspects of production and post-production sound recording, editing, and mixing for film. <i>Fall.</i>
FIL 3581	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 3720C	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 3734C	CAH-ART	3(2,4)	Intermediate Animation: PR: Animation majors only, FIL 3720C, 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

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FIL 3803C CAH-FILM 3(3,1) Film Theory and Criticism I: PR: FIL 2107 and Film BFA, World Cinema, or Cinema Studies major. Major film theories to the Second World War Period. <i>Fall</i> . M&S fee: \$10.00	FIL 3847 CAH-FILM 3(3,0) Latin American Cinema: PR: PR or CR: FIL 3036 or FIL 3037 and Film BFA, World Cinema, or Cinema Studies major. Latin American films and film movements, historical and contemporary issues, social, and aesthetic concerns. <i>Spring</i> .	FIL 4040 CAH-DIG 3(3,0) Animated Film-History for non film majors: PR: FIL 3041. Evolution of animation since World War II. <i>Occasional</i> .
FIL 3804C CAH-FILM 3(3,1) Film Theory and Criticism II: PR: FIL 3803C. Major film theories from Second World War period to present. <i>Spring</i> . M&S fee: \$10.00	FIL 3850 CAH-FILM 3(3,0) Cinema Directors: PR: FIL 3803C and Film BFA, World Cinema, or Cinema Studies major, or C.I. Intensive study of the work of selected film-makers using multiple modes of criticism and author analysis to examine films. <i>Occasional</i> .	FIL 4042 CAH-FILM 3(3,0) History of Animated Films II: PR: FIL 3041, and Cinema Studies, Art, Animation or Digital Media major. Growth and diversification of American and international animation since 1945. <i>Spring</i> .
FIL 3811 CAH-FILM 3(3,0) Advanced Story Structure Research: PR: FIL 3115 and Film BFA or World Cinema major. 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 3852 CAH-FILM 3(3,0) Cinema Criticism Writing: PR: FIL 3036 or FIL 3037 and ENC 1102, FIL 2030, FIL 3803C. Modes of cinema criticism. <i>Occasional</i> .	FIL 4057C CAH-FILM 3(3,1) Hollywood Cinema: PR: FIL 3035C. This course studies Hollywood cinema historically, culturally, stylistically, and organizationally. <i>Occasional</i> .
FIL 3812C CAH-FILM 3(3,1) Film Theories and Practices: PR: PHI 2010 (Introduction to Philosophy). Concentration on the film theories of film-makers in relation to their own work and to the cinema generally. <i>Spring</i> .	FIL 3860C CAH-FILM 3(3,1) The Shot, Framing, Point of View: PR: FIL 3035C. Approaches to the shot, framing and point of view. <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 3820 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 3861C CAH-FILM 3(3,1) Film and Photography: PR: FIL 3076C. Historical and Cultural relationship between photography and film. <i>Occasional</i> .	FIL 4113C CAH-FILM 3(2,3) Interactive Writing I: PR: Junior Standing, Film major, FIL 3115 or Digital Media major. Writing workshop for experienced scriptwriters, cold readings, preparing calling card script, marketing scripts and funding sources. <i>Occasional</i> .
FIL 3822 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 3862C CAH-FILM 3(3,1) Narrative Structures in Film: PR: LIT 2110 and LIT 2120. Different structures of narrative in film and the ways in which narrative structures have been theorized and understood. <i>Fall</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 3823 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 3865C CAH-FILM 3(3,1) Mise en scÈne and Theatricality: PR: THE 2000. Relationship between theatre and cinema with specific emphasis on mise en scÈne. <i>Spring</i> .	FIL 4126C CAH-FILM 3(2,2) Genre Writing: PR: Film major, FIL 3803C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc. <i>Occasional</i> .
FIL 3824 CAH-FILM 3(3,0) Italian Neo-Realist Cinema: PR: FIL 3036 or FIL 3037, or C.I. Post-World War II period of the Italian cinema, with emphasis on the work of Antonioni, Visconti, Pasolini, Fellini, and Rossellini. <i>Occasional</i> .	FIL 3870C CAH-FILM 3(3,1) Music, Natural Sounds and Dialogue in Film: PR: FIL 3035C. Study of relationship between music, natural sounds, dialogue, and moving images. <i>Occasional</i> .	FIL 4162C CAH-FILM 3(2,3) Feature/TV Writing I: PR: Film BFA, World Cinema, or Cinema Studies major, or Cinema Studies minor, and FIL 3115, or C.I. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting. <i>Fall</i> .
FIL 3826 CAH-FILM 3(3,0) American Cinema: PR: Film BFA, World Cinema, or Cinema Studies major, or Cinema Studies minor. 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 3871 CAH-FILM 3(3,0) The American Film Artist: PR: FIL 2030. 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: \$5.00	FIL 4163C CAH-FILM 3(2,3) Feature/TV Writing II: PR: FIL 4162C. Advanced writing workshops, principles and methods of adaptation and reader's coverage. <i>Spring</i> .
FIL 3831 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 3876C CAH-FILM 3(3,1) Experimental Cinema I: PR: FIL 3075C. A notion of cinema as an expansion of possibilities organized around formal, material, and conceptual aspects of film. <i>Fall, Spring</i> .	FIL 4301C CAH-FILM 3(1,3) Documentary Workshop I: PR: FIL 3304C or C.I. Socially significant documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media. <i>Fall</i> .
FIL 3841 CAH-FILM 3(3,0) French New Wave Cinema: PR: FIL 3036 or FIL 3037, or C.I. Post-World War II period of the French cinema, emphasizing the work of Renoir, Bresson, Godard, Rohmer, Resnais, and Rivette. <i>Occasional</i> .	FIL 3877C CAH-FILM 3(3,1) Experimental Cinema II: PR: FIL 3876C. Concentration on specific aesthetic strategies of experimental film including those derived from the work of artists outside of the film related to treatments of reality and the perception of light. <i>Spring</i> .	FIL 4302C CAH-FILM 3(1,3) Documentary Workshop II: PR: FIL 4301C or C.I. Advanced documentary projects for community groups, heritage organizations, non-profit agencies and NGOs using film, video and digital media. <i>Spring</i> .
FIL 3842 CAH-FILM 3(3,0) International Cinema: PR: PR or CR: FIL 3036 or FIL 3037 and Film BFA, World Cinema, or Cinema Studies major. Post-World War II period of the international cinema, with emphasis on the cinemas of Europe and Asia. <i>Occasional</i> .	FIL 3878C CAH-FILM 3(3,1) Color and Lighting in Cinema: PR: FIL 3035C. Ideas and practices related to lighting and color primarily in film but also painting, sculpture, photography and theatre. <i>Occasional</i> .	FIL 4303C CAH-FILM 3(3,1) Film Fiction and the Document: PR: LIT 2110, FIL 3075C, and FIL 3076C. Study of the shifting boundary between fiction and documentary in film and in the other arts at the core of which is the notion of the document. <i>Fall</i> .
FIL 3845 CAH-FILM 3(3,0) World Cinema Traditions: PR: PR or CR: FIL 3036 or FIL 3037 and Film BFA, World Cinema, or Cinema Studies major. The relationship among film, history, and culture in selected Asian, African, Latin American, and Middle Eastern countries. <i>Fall, Spring</i> .	FIL 3880C CAH-FILM 3(3,1) Images of Women in Film: PR: FIL 2030. Images of women in film and how these images are shaped and structured in relation to circumstances of production, aesthetics, cultural, historical, and ideological factors. <i>Fall, Spring</i> .	FIL 4428 CAH-FILM 3(3,0) Episodic Production: PR: Film or Animation Majors. Episodic film production techniques. <i>Occasional</i> .
	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 4433C CAH-FILM 3(2,4) Intermediate Film Production: PR: Film major, FIL 3427C. Advanced exploration of the aesthetic and technical facets of filmmaking. <i>Occasional</i> . M&S fee: \$45.00

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FIL 4434C CAH-FILM 3(2,4) Capstone I: PR: FIL 3132 and Film BFA or World Cinema major. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. <i>Fall</i> . M&S fee: \$10.00	FIL 4661 CAH-FILM 3(3,0) The Film Producer: PR: FIL 2423 of FIL 3427C and junior standing and Film BFA, World Cinema, or Cinema Studies major. The role of the producer is examined in the context of theatrical film. <i>Spring</i> .	FIL 5419 CAH-FILM 3(3,0) Developing the Film Screenplay: PR: Admission to MFA Film & Digital Media/Entre Dig Cin track, or C.I. Development of an existing, original screenplay to fit the demands, limits, and possibilities of the microbudget, digital film paradigm. <i>Fall</i> .
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 4735C CAH-ART 3(2,4) Advanced Animation: PR: Animation majors only, FIL 3720C, FIL 3734C, 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 5612 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 4451 CAH-FILM 3(3,0) Design for Film: PR: FIL 3427C, or C.I. Analysis of visual structure of film. Specific problems in art direction. <i>Fall</i> .	FIL 4740C CAH-FILM 3(3,1) Film and Digitalization: PR: FIL 3035C. A study of the new possibilities offered to film and thinking about film by digitalization. <i>Occasional</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 4453C CAH-FILM 4(3,2) Special Problems in Film Design: PR: FIL 2423 or FIL 3427C and FIL 2030. A series of exercises in craft, techniques, and design for film production, including animation. <i>Occasional</i> . M&S fee: \$5.00	FIL 4750C CAH-ART 3(2,4) Animation Workshop: PR: Animation majors only, FIL 3720C, FIL 3734C, FIL 4735C, 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 5853 CAH-FILM 3(3,0) Independent Cinematic Forms: PR: Admission to MFA Film & Digital Media/Entrepreneurial Digital Cinema track, or C.I. Evolution of low budget independent cinematic films through the works of modern and classical filmmakers within and beyond the studio system. <i>Fall</i> .
FIL 4472C CAH-FILM 3(2,4) Cinematography II: PR: Film major, FIL 3427C, FIL 2461. Advanced principles and practices of cinematography. <i>Spring</i> . M&S fee: \$5.00	FIL 4808 CAH-FILM 3(3,0) Images and Text in Context: PR: FIL 2030 or C.I. Moving images, the still image, and text in their cultural contexts. <i>Occasional</i> .	FIL 5864 CAH-FILM 3(3,0) Ways of Seeing: The Expressive Potential of Film: PR: Admission to MFA Film and Digital Media or C.I. A study of multidisciplinary theories that relate to the practice of filmmaking. <i>Fall</i> .
FIL 4486C CAH-FILM 3(3,1) Directing for Film II: PR: FIL 2480. Principles and practice in directing narrative and/or documentary motion pictures. <i>Fall</i> . M&S fee: \$5.00	FIL 4830 CAH-FILM 3(2,2) Motion Picture Genre: PR: FIL 2030. Analysis and evaluation of films, including their major genres, directors, styles, and periods. <i>Even Fall</i> . M&S fee: \$5.00	FIL 5924 CAH-FILM 1(1,0) Graduate Seminar: PR: Admission to MFA Film & Digital Media/Entrepreneurial Digital Cinema track, or C.I. Strategies for a successful graduate experience, and forum for modes of inquiry, film technique, production and distribution issues; and thesis defense preparation. Graded S/U. May be used in the degree program a maximum of 6 times. <i>Fall</i> .
FIL 4487 CAH-FILM 3(3,0) Directing for Film III: PR: FIL 4486C. Advanced processes and techniques of film directing. <i>Spring</i> . M&S fee: \$5.00	FIL 4844 CAH-FILM 3(3,0) Africana Cinema: PR: FIL 3845. Aesthetics, theory and practice of filmmaking in the African Diaspora. <i>Occasional</i> .	FIN 2100 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 4535C CAH-FILM 3(3,1) Sound Design for Film II: PR: FIL 3534. An understanding of how production mixers bring the film director's vision to the screen. <i>Spring</i> .	FIL 4863C CAH-FILM 3(3,1) Montage: PR: FIL 3075C and FIL 3076C. A study of montage primarily but not exclusively in film. Emphasizing the way montage constructs continuities and disjunctions. The course is theoretical with practical exercises. <i>Fall</i> .	FIN 3303 BA-FIN 3(3,0) Financial Markets: PR: FIN 3403C; 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 4536 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 4934C CAH-FILM 3(3,1) Current Problems in Film and Culture: PR: FIL 3035C. Concentration on the most recent work in film studies concerned with film in its relation to cultural issues. <i>Occasional</i> .	FIN 3403C BA-FIN 4(3,1) 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 4554C CAH-FILM 3(3,1) Non-Linear Editing: PR: Film major and FIL 3427C. 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 4935C CAH-FILM 3(3,1) Current Problems in Film Theory: PR: FIL 3035C. Concentration on most recent work in film studies concerned with film theory. <i>Occasional</i> .	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 3403C with honors level content. <i>Occasional</i> .
FIL 4566C CAH-FILM 3(3,2) Editing II: PR: FIL 2274C. Theory, techniques and practices in picture editing. <i>Fall</i> . M&S fee: \$5.00	FIL 4939C CAH-FILM 3(3,1) Current Problems in Film History: PR: FIL 3035C. Concentration on the most recent work in film studies concerned with film history. <i>Occasional</i> .	FIN 3414 BA-FIN 3(3,0) Intermediate Corporate Finance: PR: FIN 3403C; 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> .
FIL 4573C CAH-FILM 3(1,3) Capstone II: PR: FIL 4434C. Intensive tutorial guidance, instruction and evaluation of final film projects in post production. May be repeated for credit. <i>Spring</i> . M&S fee: \$5.00	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> .	FIN 3461 BA-FIN 3(3,0) Financial Statement Analysis: PR: FIN 3403C. Understanding and interpreting financial statement data for business decisions. <i>Occasional</i> .
FIL 4602 CAH-FILM 3(3,0) Film Business: PR: FIL 2423 or FIL 3427C and junior standing and Film BFA, World Cinema, or Cinema Studies major. 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 5414 CAH-FILM 3(3,0) Film Vision, Scope & Financing: PR: Acceptance to the MFA Film & Digital Media program. Exploration of the creative and business challenges filmmakers encounter when working on a screenplay, including financing, making, and distributing a digital, microbudget motion picture. <i>Spring</i> .	

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FIN 3504 BA-FIN 3(3,0)
Investment Analysis: PR: FIN 3403C; 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. *Fall, Spring.*

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. *Occasional.*

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. *Fall.*

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. *Occasional.*

FIN 4453 BA-FIN 3(3,0)
Financial Models: PR: FIN 3403C, 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. *Fall, Spring.*

FIN 4514 BA-FIN 3(3,0)
Portfolio Analysis and Management: PR: FIN 3403C, 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. *Fall, Spring.*

FIN 4533 BA-FIN 3(3,0)
Financial Derivatives: PR: FIN 3403C, 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. *Fall, Spring.*

FIN 4560C BA-FIN 4(3,1)
Applied Portfolio Management 1: PR: Finance major, FIN 3403C, FIN 3504, and C.I. For UCF Student Managed Portfolio program participants. Provides detailed, rigorous analyses of Equity portfolio management topics, including risk/return, valuation, forecasting, portfolio construction, and performance appraisal. *Occasional.*

FIN 4561C BA-FIN 4(3,1)
Applied Portfolio Management 2: PR: Finance major, FIN 4560C, 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. *Occasional.*

FIN 4604 BA-FIN 3(3,0)
International Financial Management: PR: FIN 3403C; 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. *Fall, Spring.*

FIN 4730 BA-FIN 3(3,0)
Senior Financial Consulting I: PR: Finance major, FIN 3403C, 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. *Occasional.*

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. *Occasional.*

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 S/U. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

FRE 1120C CAH-LANG 4(3,1)
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. *Fall, Spring.*

FRE 1121C CAH-LANG 4(3,1)
Elementary French Language and Civilization II: PR: FRE 1120C or equivalent. Continuation of FRE 1120C. *Fall, Spring.*

FRE 2200 CAH-LANG 3(3,1)
Intermediate French Language and Civilization I: PR: FRE 1121C or equivalent. Development of language skills and cultural knowledge at the intermediate level. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

FRE 2270 CAH-LANG 8(16,10)
Intermediate French Study Abroad: PR: Elementary French. Intermediate French language and civilization taught in the native environment. *Occasional.*

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. *Fall.*

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. *Occasional.*

FRE 3420 CAH-LANG 3(3,0)
French Composition: PR: FRE 2201 or equivalent. Development of skills in composition. *Fall.*

FRE 3423 CAH-LANG 3(3,0)
Advanced French Grammar Abroad: PR: FRE 2200, FRE 2201 or equivalent. Students will be immersed throughout the term applying grammatical concepts as they relate to written expression in order to enhance oral expression. May be repeated for credit. *Occasional.*

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. *Occasional.*

FRE 3441 CAH-LANG 3(3,0)
Business French II: PR: FRE 3440 or C.I. Introduction to French business language and practices. *Occasional.*

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. *Spring.*

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FRE 3780 CAH-LANG 3(3,0) French Phonetics and Diction: French phonology, with emphasis on phonic groupings. <i>Spring.</i>	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>	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>
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>	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>	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
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>	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>	GEA 4405 CAH-CAH 3(3,0) Geography of Latin America: PR: ENC 1102 or C.I. Geography of Latin America and the Caribbean, including geophysical, cultural, economic, and social characteristics and processes. <i>Occasional.</i>
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>	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>	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>
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>	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, Ciraudoux, Ionesco, and Sartre; different literary approaches will also be used. <i>Occasional.</i>	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>
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>	FRW 4380 CAH-LANG 3(3,0) Early Modern French Fairy Tales: PR: FRW 3100 and FRW 3101. Classic French fairy tale tradition within the context of 21st century American fairy tale tradition. <i>Odd Spring.</i>	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>
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>	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>	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>
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>	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>	GEB 3375 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>
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>	FRW 4552 CAH-LANG 3(3,0) Nineteenth Century French Literature: PR: FRW 3101. Realism and naturalism. <i>Occasional.</i>	GEB 3375H 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 3375 with honors level content. <i>Occasional.</i>
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>	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>	GEB 4110 BA-MAN 3(3,0) Business Plan Preparation: PR: MAN 4802, GEB 4111. 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>
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>	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	GEB 4111 BA-MAN 3(3,0) New Venture Finance: PR: MAN 4802 or GEB 3113. 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>
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>	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>	GEB 4152 BA-MAN 3(3,0) Technological Entrepreneurship: PR: MAN 4802 or GEB 3113. Creating business ventures based on novel intellectual property and technological innovation. It addresses licensing, venture formation, and strategic alliances as potential strategies. <i>Occasional.</i>
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>	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	
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>	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	

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GEB 4361	BA-FIN	3(3,0)	Business in the International Environment: PR: Finance major, FIN 3403C, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector. <i>Occasional.</i>
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>
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>
GER 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 business and provides students with knowledge about international trade. <i>Occasional.</i>
GER 2210	CAH-LANG	3(3,0)	Intensive German Conversation: PR: GER 1121C or C.I. Practical use of the language, leading toward fluency and correctness in speaking. <i>Occasional.</i>
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>
GER 4374	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>
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>
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>
GER 2270	CAH-LANG	6(6,0)	Intermediate German Study Abroad: PR: GER 1121C or equivalent. Intermediate German language and culture taught in the native environment. <i>Occasional.</i>
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>
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>
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>
GER 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>
GER 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>
GER 3420	CAH-LANG	3(3,0)	Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition. <i>Occasional.</i>
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>
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>
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>
GER 3440	CAH-LANG	3(3,0)	Business German I: PR: GER 2200. Introduction to German business language and practices. <i>Occasional.</i>
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>
GER 3441	CAH-LANG	3(3,0)	Business German II: PR: GER 3440. Continuation of Business German I. <i>Occasional.</i>
GER 1120C	CAH-LANG	4(3,1)	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>
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>
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>
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>
GER 1121C	CAH-LANG	4(3,1)	Elementary German Language and Civilization II: PR: GER 1120C or equivalent. Continuation of GER 1120C. <i>Fall, Spring.</i>
GER 3780	CAH-LANG	3(3,0)	German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation. <i>Occasional.</i>
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>
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>
GER 2200	CAH-LANG	3(3,1)	Intermediate German Language and Civilization I: PR: GER 1121C or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Fall, Spring.</i>
GER 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>
GER 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>
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>
GEY 3326H	COS-PSYCH	3(3,0)	Honors Images of Aging: PR: Advanced standing in the Honors College and consent of Honors. Interdisciplinary examination of issues in aging exploring how the various images of aging are reflected across the natural sciences, social sciences and humanities. With Honors content. <i>Occasional.</i>
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>
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>
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 an interdisciplinary and multidisciplinary approach spanning the social sciences and health. <i>Occasional.</i>
GIS 3043C	UGST-INTERDISC	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>

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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>	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>	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>
GIS 4301C UGST-INTERDISC 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>	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>	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>
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>	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	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>
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	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	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>
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	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	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>
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	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	HFT 1000 RCHM-HSP SERV 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>
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	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>	HFT 1350 RCHM-TEA 3(3,0) Career & Promotional Development in Golf: PR: HFT 3357. The developmental sequence of lifelong programs for juniors, women, and seniors.; in the golf industry. <i>Occasional.</i>
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	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>	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>
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	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>	HFT 2220 RCHM-HSP SERV 3(3,0) Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting. <i>Fall, Spring.</i>
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	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>	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>
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	HAI 1121 CAH-LANG 4(4,0) Elementary Haitian Language and Culture II: PR: HAI 1120. A continuation of HAI 1120. <i>Occasional.</i>	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>
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>	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>	HFT 2401 RCHM-HSP SERV 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. <i>Fall, Spring.</i>
		HFT 2500 RCHM-HSP SERV 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. <i>Fall, Spring.</i>
		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. <i>Fall, Spring.</i>

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<p>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. <i>Fall, Spring.</i></p>	<p>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. <i>Odd Fall.</i></p>	<p>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. <i>Occasional.</i></p>
<p>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. <i>Fall, Spring.</i></p>	<p>HFT 3517 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. <i>Fall.</i></p>	<p>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. <i>Occasional.</i></p>
<p>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. <i>Occasional.</i></p>	<p>HFT 3540 RCHM-HSP SERV 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. <i>Fall, Spring.</i></p>	<p>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. <i>Spring.</i></p>
<p>HFT 3323 RCHM-HSP SERV 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. <i>Spring.</i></p>	<p>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. <i>Occasional.</i></p>	<p>HFT 3834 RCHM-HSP SERV 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. <i>Odd Spring.</i></p>
<p>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. <i>Occasional.</i></p>	<p>HFT 3603 RCHM-HSP SERV 3(3,0) Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry. <i>Fall, Spring.</i></p>	<p>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. <i>Fall, Spring.</i> M&S fee: \$45.00</p>
<p>HFT 3354 RCHM-TEA 3(3,0) Agronomy for Golf Course Management: PR: HFT 3353. Primary roles and responsibilities of the golf course superintendent. <i>Occasional.</i></p>	<p>HFT 3610 RCHM-HOS 3(3,0) Law and Restaurant Management: PR: HFT 3603 and HFT 3263. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed. <i>Occasional.</i></p>	<p>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. <i>Fall, Spring.</i></p>
<p>HFT 3355 RCHM-TEA 3(3,0) Golf Planning & Operations II: PR: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models. <i>Occasional.</i></p>	<p>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. <i>Fall.</i></p>	<p>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. Graded S/U. <i>Fall, Spring.</i></p>
<p>HFT 3357 RCHM-TEA 3(3,0) Golf Event Operations: PR: HFT 1356; HFT 1000; HFT 2500. Develop, plan, and organize golf tournaments of all types. <i>Occasional.</i></p>	<p>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. <i>Occasional.</i></p>	<p>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. <i>Occasional.</i></p>
<p>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. <i>Occasional.</i></p>	<p>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. <i>Fall, Spring.</i></p>	<p>HFT 4253 RCHM-HOS 3(3,0) Hotel Operations: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3603; HFT 2750; HFT 2401; 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. <i>Spring.</i></p>
<p>HFT 3384 RCHM-TEA 3(3,0) Golf and Club Enterprises Management: PR: HFT 1000 and FSS 2221C. Comprehensive examination of the golf and club management industry, its related national and international associations, and career path opportunities. <i>Occasional.</i></p>	<p>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. <i>Fall, Spring.</i></p>	<p>HFT 4255 RCHM-HOS 3(3,0) Advanced Hotel Development: PR: HFT 4464, HFT 4473, or C.I. Hotel investment practices, risk management and other investment decision factors. <i>Occasional.</i></p>
<p>HFT 3431 RCHM-HSP SERV 3(3,0) Hospitality Industry Managerial Accounting: PR: HFT 2401 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. <i>Fall, Spring.</i></p>	<p>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. <i>Occasional.</i></p>	<p>HFT 4266 RCHM-HOS 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></p>
<p>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. <i>Occasional.</i></p>	<p>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. <i>Spring.</i></p>	<p>HFT 4268 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></p>
<p>HFT 3444 RCHM-HSP SERV 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. <i>Fall, Spring.</i></p>	<p>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. <i>Occasional.</i></p>	<p>HFT 4269 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>Occasional.</i></p>
<p>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. <i>Occasional.</i></p>		

UCF Courses and Descriptions

HFT 4274 RCHM-HOS 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. *Occasional.*

HFT 4275 RCHM-HOS 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. *Occasional.*

HFT 4277 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. *Fall.*

HFT 4281 RCHM-HOS 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. *Fall, Spring.*

HFT 4284 RCHM-HOS 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. *Occasional.*

HFT 4286 RCHM-HSP SERV 3(3,0)
Hospitality Communications: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3603; HFT 2750; HFT 2401; 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. *Fall, Spring.*

HFT 4295 RCHM-HSP SERV 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. *Fall, Spring.*

HFT 4298 RCHM-HSP SERV 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. *Occasional.*

HFT 4343 RCHM-HSP SERV 3(3,0)
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. *Odd Fall.*

HFT 4358 RCHM-TEA 3(3,0)
Golf Course Facility Design: PR: HFT 3355. Golf course and golf facility design from a functional perspective and from a perspective of form. *Occasional.*

HFT 4375 RCHM-TEA 3(3,0)
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. *Occasional.*

HFT 4413 RCHM-HSP SERV 3(3,0)
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. *Odd Spring.*

HFT 4425 RCHM-HSP SERV 3(3,0)
Financial Analysis for Restaurant Managers: PR: HFT 2401, 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. *Occasional.*

HFT 4432 RCHM-HSP SERV 3(3,0)
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. *Occasional.*

HFT 4442 RCHM-HOS 3(3,0)
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. *Occasional.*

HFT 4457 RCHM-HSP SERV 3(3,0)
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. *Fall, Even Spring.*

HFT 4464 RCHM-HSP SERV 3(3,0)
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. *Odd Fall, Odd Spring.*

HFT 4473 RCHM-HSP SERV 3(3,0)
Hotel Development Analysis: PR: HFT 3431 and junior standing or C.I. Review of methodological operation, financial, and marketing aspects of analyses for hotel development projects. *Occasional.*

HFT 4522 RCHM-HOS 3(3,0)
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. *Occasional.*

HFT 4532 RCHM-TEA 3(3,0)
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. *Fall.*

HFT 4561 RCHM-TEA 3(3,0)
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. *Occasional.*

HFT 4614 RCHM-TEA 3(3,0)
Risk Management in Theme Parks and Attractions: PR: HFT 4755 and HFT 3603; or C.I. Examines principles and issues related to the nature and mitigation of risks at theme parks and attractions. Covers all theme park operating departments. *Occasional.*

HFT 4645 RCHM-HOS 3(3,0)
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. *Occasional.*

HFT 4722 RCHM-TEA 3(3,0)
Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations. *Occasional.*

HFT 4735 RCHM-TEA 3(3,0)
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. *Fall, Spring.*

HFT 4736 RCHM-TEA 3(3,0)
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. *Occasional.*

HFT 4753 RCHM-TEA 3(3,0)
Convention and Conference Services: PR: HFT 3517 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. *Spring.*

HFT 4754 RCHM-TEA 3(3,0)
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. *Fall, Spring.*

HFT 4755 RCHM-TEA 3(3,0)
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. *Fall, Spring.*

HFT 4757 RCHM-TEA 3(3,0)
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. *Fall, Spring.* M&S fee: \$37.00

HFT 4758 RCHM-TEA 3(3,0)
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. *Fall.*

HFT 4759 RCHM-TEA 3(3,0)
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. *Occasional.*

HFT 4762 RCHM-TEA 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. *Occasional.*

HFT 4786 RCHM-TEA 3(3,0)
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. *Spring.*

HFT 4787 RCHM-TEA 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. *Fall.*

HFT 4791 RCHM-TEA 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. *Occasional.* M&S fee: \$45.00

UCF Courses and Descriptions

HFT 4795	RCHM-TEA	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>	HIM 3806C	HPA-HMI	3(1,4)	Professional Practice Experience I: PR: Admission to HIM program. CR: HIM 3006, HSC 3537 and HIM 3116C. Virtual hospital tour; 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>	HIS 4323	CAH-HIST	3(3,0)	History of the Future: PR: EUH 2000 and EUH 2001. Past visions of the future and how they were influenced by issues relevant to the period. Emphasis on 19th and 20th centuries. <i>Occasional.</i>
HFT 4796	RCHM-TEA	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>	HIM 4226C	HPA-HMI	5(3,4)	Coding Procedures I: PR: HSC 3537 or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders. <i>Fall, Spring.</i>	HIS 4935	CAH-HIST	3(3,0)	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 4802	RCHM-TEA	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	HIM 4256C	HPA-HMI	3(2,2)	Coding Procedures II: PR: HSC 3537 or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; CPT/HCPCS; APCs; encoders. <i>Fall.</i>	HIS 4944	CAH-HIST	3(3,0)	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 4844	RCHM-HOS	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>	HIM 4344C	HPA-HMI	4(3,2)	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>	HIS 4970	CAH-HIST	3(3,0)	Senior Thesis: Original research paper available to advanced history majors, topics to be selected in consultation with a directing professor. <i>Occasional.</i>
HFT 4861C	RCHM-HOS	3(3,1)	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 hospital-ity industry. <i>Spring.</i> M&S fee: \$45.00	HIM 4506C	HPA-HMI	3(2,2)	Quality Management: PR: HSC 3537 or C.I. Principles and mechanics of quality improvement; utilization review; case management and risk management. <i>Fall, Spring.</i>	HIS 4970H	CAH-HIST	VAR	UNDERGRADUATE HONORS THESIS: Graded S/U or Letter grade. <i>Occasional.</i>
HFT 4864	RCHM-HOS	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	HIM 4656C	HPA-HMI	3(2,2)	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>	HIS 5067	CAH-HIST	3(3,0)	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 4865	RCHM-HOS	3(3,0)	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	HIM 4676	HPA-HMI	3(3,0)	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>	HIS 5158	CAH-HIST	3(3,0)	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 4866C	RCHM-HOS	3(3,1)	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	HIM 4816C	HPA-HP	3(1,4)	Professional Practice Experience II: PR: HIM 3806C 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>	HLP 2701	ED-ERTL	3(3,0)	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 4894	RCHM-HOS	3(3,0)	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>	HIM 4838	HPA-HMI	5(0,15)	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>	HLP 4722	ED-ERTL	1(1,0)	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 4949	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. Graded S/U. <i>Fall, Spring.</i>	HIS 3462	CAH-HIST	3(3,0)	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>	HSA 3012	HPA-HP	3(3,0)	Issues & Trends in Public Health: PR: STA 2023 or C.I. The American public health system, looking at the historical, present day, and future organization and management of all its components. <i>Fall.</i>
HIM 3006	HPA-HMI	3(3,0)	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>	HIS 3949	CAH-HIST	0(0,8)	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>	HSA 3111	HPA-HP	3(3,0)	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>
HIM 3116C	HPA-HMI	4(3,2)	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>	HIS 4070	CAH-HIST	3(3,0)	Oral History: PR: Either AMH 2010, AMH 2020 or C.I. Theories and practices of oral history. Field work required. <i>Occasional.</i>	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>
				HIS 4150	CAH-HIST	3(3,0)	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>	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>

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HSA 3222 HPA-HP 3(3,0)
Long Term Care and Administration: PR: HSA 3111 or C.I. Organization and functioning of long-term care administration. Covers long-term care providers, interaction in long-term care continuum, managing long-term care and future issues. *Even Fall, Spring.*

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. *Fall, Spring.*

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. *Even Fall, Spring.*

HSA 4150H 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. *Occasional.*

HSA 4180 HPA-HP 3(3,0)
Organization & Management for Health Agencies I: PR: HSA 3111 or C.I. General description and analysis of the management and organization of a variety of healthcare organizations including hospitals, long term care facilities and medical group practices. *Fall.*

HSA 4184 HPA-HP 3(3,0)
Organization & Management for Health Agencies II: PR: HSA 3111 and HSA 4180, or C.I. In-depth analysis of the management and organization of healthcare organizations including hospitals, long term care facilities, and medical group practices. *Fall.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Fall.*

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. *Occasional.*

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. *Occasional.*

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. *Fall, Spring.* M&S fee: \$15.00

HSC 3147 HPA-HP 3(3,0)
Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage. *Fall, Spring.*

HSC 3211 HPA-HP 3(3,0)
Preventive Health Care: PR: PCB 3703C. An established interdisciplinary approach to help people maintain health and prevent chronic diseases, stress, and addiction. *Fall, Spring.*

HSC 3406C 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. *Occasional.*

HSC 3537 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. *Fall, Spring.*

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. *Fall.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Spring.*

HSC 4158 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. *Fall.*

HSC 4159 HPA-HP 2(2,0)
Medical Pharmacology II: PR: HSC 4158 or C.I. Drugs used in cardiovascular disorders. Includes inotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists. *Spring.*

HSC 4201 HPA-HP 3(3,0)
Community Health: PR: HSA 3111 or C.I. Historical, sociocultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies. *Fall, Spring.*

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. *Spring.*

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. *Fall, Spring.*

HSC 4555 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. *Fall, Spring.*

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. *Fall, Spring.*

HSC 4652 HPA-HP 3(3,0)
Health Law and Ethics: PR: HSA 3111 or C.I. Overview of the legal and ethical issues faced by health care consumers, practitioners, administrators and health care facilities. *Fall.*

HSC 5317 ED-ERTL 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. *Occasional.*

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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. *Occasional.*

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. *Spring.*

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. *Fall, Spring.*

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. *Fall.*

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. *Fall, Spring.*

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. *Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Even Fall.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

HUM 4301 CAH-PHIL 3(3,0)
The Classical Ideal: PR: HUM 2210 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. *Spring.*

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. *Odd Spring.*

HUM 4330 CAH-PHIL 3(3,0)
Performance Theory: PR: Junior standing and HUM 2230 or 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. *Occasional.*

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. *Fall, Spring.*

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. *Even Fall.*

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. *Occasional.*

HUM 4823 CAH-PHIL 3(3,0)
Queer Theory in the Humanities: PR: HUM 2210, HUM 2230 and Junior standing or C.I. Developments in queer theory. Challenge to research by scholars, activists, performers, and visual artists. *Occasional.*

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. *Occasional.*

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. *Occasional.*

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. *Fall.*

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. *Fall, Spring.*

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. *Fall, Spring.*

HUN 3013 RCHM-HOS 3(3,0)
Nutrition Concepts and Issues in the Food Service Industry: PR: FSS 2221C or C.I. Introduces basic nutrition concepts. Discusses nutrition concepts and concerns in relation to food preparation and service in the hospitality industry. *Occasional.*

HUN 5247 HPA-HP 3(3,0)
Principles of Human Nutrition: PR: Admission to Health Sciences MS Clinical and Lifestyle Sciences track or C.I. Course promotes in-depth understanding of the role of macronutrients in human nutrition and health enabling graduates to integrate knowledge into other aspects of their work. *Occasional.*

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. *Fall.*

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. *Spring.*

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. *Occasional.*

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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. *Occasional.*

IDS 1040C COS-COMM 2(1,1)
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. *Fall, Spring.*

IDS 2041C COS-COS 2(1,1)
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. *Occasional.*

IDS 3150 UGST-INTERDISC 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. *Spring.*

IDS 3333 UGST-INTERDISC 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. *Occasional.*

IDS 3334 CAH-HIST 3(3,0)
Topics in Latino Studies: PR: ENC 1102. Multi-disciplinary course exploring various topics pertaining to Latinos in the U.S. *Occasional.*

IDS 3933 UGST-INTERDISC 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. *Fall, Spring.*

IDS 4156 UGST-INTERDISC 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. *Occasional.*

IDS 4315 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. *Spring.*

IDS 4335 CAH-CAH 3(3,0)
Latino Artistic Expressions: PR: IDS 3334 or C.I. Latino culture as represented by the Arts in the United States. *Odd Spring.*

IDS 4934 UGST-INTERDISC 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. *Fall, Spring.* M&S fee: \$17.00

IDS 4935 COS-SOC 3(3,0)
Multidisciplinary Research Methods: PR: McNair Scholar and Junior Standing. Research methods of various disciplines designed for McNair Program Scholars. *Occasional.*

IDS 5127 COM-M&M 3(3,0)
Foundation of Bio-Imaging Science: PR: Graduate standing. Fundamental theory, design, and practice of modern bio-imaging techniques used for basic biomedical research applications. *Occasional.*

IDS 5145 ECS-IEMS 3(3,2)
Interdisciplinary Course in Simulation: PR: Calculus, matrix algebra, probability and statistics, high level programming language. An interdisciplinary course on simulation with hands-on experience in discrete event modeling, continuous modeling and shared virtual world. May be repeated for credit. *Occasional.*

IDS 5717C COS-PSYCH 3(2,2)
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. *Fall.*

IDS 5719 COS-PSYCH 3(3,0)
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. *Spring.*

IDS 5915 CAH-PHIL 3(3,0)
Research Methods in Cognitive Sciences: PR: Admission to graduate certificate program in Cognitive Sciences or C.I. Interdisciplinary research methods in the cognitive sciences. *Spring.*

IDS 5936 CAH-PHIL 3(3,0)
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. *Fall.*

INP 3004 COS-PSYCH 3(3,0)
Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations. *Fall.*

INP 3004H COS-PSYCH 3(3,0)
Honors Industrial/Organizational Psychology: PR: PSY 2012 and consent of Honors. Psychological theories and principles applicable to problems in industrial organizations. With Honors content. *Occasional.*

INP 3141C COS-PSYCH 1-3(0,3-9)
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. Graded S/U. May be repeated for credit. *Fall, Spring.*

INP 3951 COS-PSYCH 3(0,10)
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. *Occasional.*

INP 4252 COS-PSYCH 3(3,0)
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. *Occasional.*

INP 4313 COS-PSYCH 3(3,0)
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. *Occasional.*

INP 4380 COS-PSYCH 3(3,0)
Psychology of Teamwork: PR: PSY 2012 or C.I. Dynamics of small groups and teams from social and applied psychology perspectives. *Occasional.*

INP 5825 COS-PSYCH 3(3,0)
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. *Occasional.*

INR 2002 COS-POLS 3(3,0)
International Relations-Theory and Practice: Analysis of the fundamental principles and factors affecting interstate relations and their application to contemporary global developments. *Fall, Spring.*

INR 3016 COS-POLS 3(3,0)
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. *Occasional.*

INR 3250 COS-POLS 3(3,0)
Politics of Pan-Africanism: PR: INR 2002. Political expressions of Pan-Africanism throughout the major regions of the African Diaspora. *Occasional.*

INR 3253 COS-POLS 3(3,0)
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. *Occasional.*

INR 4011 COS-POLS 3(3,0)
Politics of Globalization: PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization. *Occasional.*

INR 4030 COS-POLS 3(3,0)
Diplomacy: PR: POS 2041, Junior standing or C.I. Concepts, theories, and methods of contemporary diplomacy; diplomatic processes in the international arena. *Spring.*

INR 4030H COS-POLS 3(3,0)
Honors Diplomacy: PR: POS 2041 and consent of Honors. Concepts, theories, and methods of contemporary diplomacy; diplomatic processes in the international arena. *Occasional.*

INR 4035 COS-POLS 3(3,0)
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. *Odd Spring.*

INR 4054 COS-POLS 3(3,0)
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. *Occasional.*

INR 4060 COS-POLS 3(3,0)
Causes of War: PR: POS 2041 or INR 2002 or C.I. The primary theoretical and empirical research explaining militarized interstate conflict. *Fall.*

INR 4063 COS-POLS 3(3,0)
The Cold War: PR: INR 2002 or C.I. Politics of US-Soviet relations emphasizing the Cold War including the global impact of the Cold War, and prospects for post-Cold War international politics. *Occasional.*

INR 4064 COS-POLS 3(3,0)
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. *Occasional.*

UCF Courses and Descriptions

INR 4074	COS-POLS	3(3,0)	INR 4335	COS-POLS	3(3,0)	ISC 2215	COS-MATH	1(3,0)
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>			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>			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>		
INR 4075	COS-POLS	3(3,0)	INR 4350	COS-POLS	3(3,0)	ISC 2216	COS-MATH	1(3,0)
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>			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>			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>		
INR 4076	COS-POLS	3(3,0)	INR 4351	COS-POLS	3(3,0)	ISC 2217	COS-MATH	1(3,0)
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>			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>Occasional.</i>			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>		
INR 4084	COS-POLS	3(3,0)	INR 4364	COS-POLS	3(3,0)	ISM 3011C	BA-MIS	4(3,1)
Politics of International Terrorism: PR: POS 2041 or C.I. Nature and politics of terrorism with primary focus on its implications for international relations. <i>Occasional.</i>			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>			Essentials of Management Information Systems: PR: Junior standing and open to Business majors and minors and other approved 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>		
INR 4085	COS-POLS	3(3,0)	INR 4401	COS-POLS	3(3,0)	ISM 3011H	BA-MIS	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>			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>			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>		
INR 4102	COS-POLS	3(3,0)	INR 4402	COS-POLS	3(3,0)	ISM 3013	BA-MIS	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>			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>			Introduction to Information Systems Management: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011C. Not open to MIS majors. Concepts and methods related to the management of information systems in organizations. <i>Occasional.</i>		
INR 4104	COS-POLS	3(3,0)	INR 4404	COS-POLS	3(3,0)	ISM 3043	BA-MIS	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>			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>			Society and Technology: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011C. Not open to MIS majors. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities. <i>Occasional.</i>		
INR 4114	COS-POLS	3(3,0)	INR 4502	COS-POLS	3(3,0)	ISM 3214	BA-MIS	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>			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>			Personal Database Productivity: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011C. 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>		
INR 4115	COS-POLS	3(3,0)	INR 4603	COS-POLS	3(3,0)	ISM 3253	BA-MIS	4(3,3)
Strategic Weapons and Arms Control: Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation. <i>Occasional.</i>			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>			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>		
INR 4224	COS-POLS	3(3,0)	INR 4714	COS-POLS	3(3,0)	ISM 3424	BA-MIS	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>			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>			Computer-Aided Decision Making: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011C. 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>		
INR 4225	COS-POLS	3(3,0)	INT 4134	HPA-COM SC&DIS	3(3,0)	ISM 3501	BA-MIS	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>Occasional.</i>			Ethics of Interpreting Sign Language: PR: ASL 2140, ASL 2150, ASL 4161C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings. <i>Occasional.</i>			Essentials of Electronic Commerce: PR: CGS 2100C or CGS 1060C, and ISM 3011C. 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>		
INR 4243	COS-POLS	3(3,0)	INT 4205C	HPA-COM SC&DIS	4(3,1)			
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>			Interactive Interpreting I: PR: ASL 2140, ASL 2150 and ASL 4161C 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>					
INR 4304	COS-POLS	3(3,0)	INT 4206C	HPA-COM SC&DIS	4(3,1)			
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>			Interactive Interpreting II: PR: INT 4205C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL. <i>Occasional.</i>					

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ISM 3521	BA-MIS	3(3,0)	Business Applications: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011C. Not open to MIS majors. Advanced topics concerning the use of application software in organizations. Focus on integration of applications. <i>Occasional.</i>	ISM 4300	BA-MIS	3(3,0)	Information Technology Management: PR: ISM 4212C, Open to MIS Majors and Minors and other appropriate majors. The strategy and theory of the design, development, adoption, and management of new information technologies. <i>Fall, Spring.</i>	ISM 5315	BA-MIS	3(3,0)	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>
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>	ISM 4314	BA-MIS	3(3,0)	Business Project Management: PR: ISM 3011C. Foundations of project management in commercial organizations. Covers all project phases from initiation to termination. <i>Occasional.</i>	ISM 5507	BA-MIS	3(3,0)	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>
ISM 4090	BA-MIS	3(3,0)	Seminar in Management Information Systems: PR: ISM 3011C. 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>	ISM 4323	BA-MIS	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>	ISS 4155	COS-COMM	3(3,0)	Science Fiction and the Social Sciences: A multimedia examination of note-worthy science fiction from the Social Science perspective. <i>Occasional.</i>
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>	ISM 4400	BA-MIS	3(3,0)	Decision Support: PR: ISM 3011C. 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>	ITA 1120C	CAH-LANG	4(3,1)	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>
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>	ISM 4431	BA-MIS	3(3,0)	Business Process Analysis: PR: ISM 4153C. Open to MIS majors and minors and other appropriate majors. 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>Fall, Spring.</i>	ITA 1121C	CAH-LANG	4(3,1)	Elementary Italian Language and Civilization II: PR: ITA 1120C or equivalent. Continuation of ITA 1120C. <i>Fall, Spring.</i>
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>	ISM 4480	BA-MIS	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>	ITA 2200	CAH-LANG	3(3,0)	Intermediate Italian Language and Civilization I: PR: ITA 1121C 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>
ISM 4153C	BA-MIS	3(2,1)	Enterprise Information Systems: PR: ISM 3011C. Open to MIS majors and minors and other appropriate majors. Implementing and managing enterprise information systems in organizations. <i>Fall, Spring.</i>	ISM 4941	BA-MIS	3(0,3)	Internship in MIS: PR: ISM 3253, ISM 4212C, and ISM 3011C, 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>	ITA 2201	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>
ISM 4154	BA-MIS	3(3,0)	Enterprise Application Development: PR: ISM 3011C, Open to MIS Majors and Minors and other appropriate majors. Design and development of enterprise applications with special emphasis on web based development platforms. <i>Occasional.</i>	ISM 5021	BA-MIS	3(3,0)	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>	ITA 2210	CAH-LANG	3(3,0)	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 4212C	BA-MIS	4(3,2)	Database Design and Implementation: PR: ISM 3253, Open to MIS Majors and Minors and other appropriate majors. Design and implementation of relational database in organizations. <i>Fall, Spring.</i>	ISM 5123	BA-MIS	3(3,0)	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>	ITA 2240	CAH-LANG	3(3,0)	Italian Conversation: PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture. <i>Occasional.</i>
ISM 4220	BA-MIS	3(3,0)	Distributed Information Systems: PR: ISM 3253, ISM 3011C. 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>	ISM 5127	BA-MIS	3(3,0)	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>	ITA 3420	CAH-LANG	3(3,0)	Italian Composition: PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture. <i>Spring.</i>
ISM 4228	BA-MIS	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>	ISM 5219	BA-MIS	3(3,0)	Business Intelligence Systems: PR: Graduate standing. Modern paradigms in data analysis. The detection of useful patterns and relationships in databases. <i>Occasional.</i>	ITA 3440	CAH-LANG	3(3,0)	Italian for Business: PR: ITA 2200. Italian language for business purposes. <i>Occasional.</i>
ISM 4238	BA-MIS	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>	ISM 5256	BA-MIS	3(3,0)	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>	ITA 3472	CAH-LANG	3(3,0)	Renaissance Art Abroad: PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo. <i>Occasional.</i>
								ITA 3760	CAH-LANG	3(3,0)	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>
								ITA 4820	CAH-LANG	3(3,0)	Italian Syntax Abroad: PR: ITA 3420. A study of Italian Syntax for advanced students of Italian. <i>Occasional.</i>
								ITT 3443	CAH-LANG	3(3,0)	Dante's Inferno: PR: ITW 3100. An in-depth study of Dante's Inferno. In English. <i>Occasional.</i>

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ITT 3480	CAH-LANG	3(3,0)	JOU 4181	COS-COMM	3(3,0)	JPN 2201	CAH-LANG	3(3,1)
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>			Public Affairs Reporting: PR: Journalism major, and a minimum grade of "C" (2.0) in both JOU 2100C and JOU 3184C. Reporting on city, county and state government. <i>Fall, Spring.</i> M&S fee: \$15.00			Intermediate Japanese Language and Civilization II: PR: JPN 2200 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization. <i>Spring.</i>		
ITT 4956	CAH-LANG	3(3,0)	JOU 4211C	COS-COMM	3(2,1)	JPN 2952	CAH-LANG	3(3,0)
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>			Informational Graphics: PR: JOURNALISM 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>			Japanese Cultural Studies Abroad: PR: JPN 1120C and JPN 1121C. 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>		
ITT 4957H	CAH-LANG	3(3,0)	JOU 4213C	COS-COMM	3(2,1)	JPN 3760	CAH-LANG	3(3,0)
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>			Page Design: PR: Journalism major and JOU 3201. Designing newspaper pages, including stories, headlines, and other content. <i>Fall, Spring.</i>			Advanced Japanese Conversation: PR: JPN 1121C or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse. <i>Occasional.</i>		
ITW 3100	CAH-LANG	3(3,0)	JOU 4224	COS-COMM	3(3,0)	JST 3005	CAH-JUD	3(3,0)
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>			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>			Tenets of Judaism: PR: ENC 1101 and ENC 1102. Values, practices, and beliefs that define Judaism. <i>Occasional.</i>		
ITW 3101	CAH-LANG	3(3,0)	JOU 4300	COS-COMM	3(3,0)	JST 3100	CAH-JUD	3(3,0)
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>			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>			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>		
JOU 2100C	COS-COMM	3(3,1)	JOU 4306C	COS-COMM	3(1,2)	JST 3120	CAH-JUD	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			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>			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>		
JOU 3004	COS-COMM	3(3,0)	JOU 4308	COS-COMM	3(3,0)	JST 3121	CAH-JUD	3(3,0)
History of American Journalism: Development of mass media, leading innovators, and the media's role in the nation's history. <i>Fall, Spring.</i>			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>			Classic Texts of Judaism: PR: ENC 1102. Scriptures, post-Biblical Rabbinic writings, Exegesis, Apocrypha, Qumran documents, Mishnah, Talmud, the Siddur, as well as Jewish mystical writings. <i>Occasional.</i>		
JOU 3101	COS-COMM	3(3,0)	JOU 4340C	COS-COMM	3(1,3)	JST 3125	CAH-JUD	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			On-line Journalism I: PR: PUR 3100, or a minimum grade of "C" (2.0) in JOU 2100C. 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			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, theodicy and ethics. <i>Occasional.</i>		
JOU 3130	COS-COMM	3(3,0)	JOU 4341C	COS-COMM	3(1,3)	JST 3126	CAH-JUD	3(3,0)
In-Depth Reporting: PR: STA 1060C or MAC 1105, and JOU 2100C, or C.I. Writing with analysis, using detail, description, and demographics. <i>Occasional.</i>			On-line Journalism II: PR: JOURNALISM major, study, design, and development of on-line journalism materials. <i>Occasional.</i> M&S fee: \$15.00			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 3184C	COS-COMM	3(2,1)	JOU 4342C	COS-COMM	3(2,1)	JST 3144	CAH-JUD	3(3,0)
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>			Converged Journalism: PR: JOURNALISM major, MMC 3200, and Senior standing. Combining print and electronic technologies to transmit information to the public. Capstone course. <i>Fall.</i>			Dead Sea Scrolls: PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance. <i>Occasional.</i>		
JOU 3201	COS-COMM	3(3,0)	JOU 4700	COS-COMM	3(3,0)	JST 3190	CAH-JUD	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			Journalism Ethics: PR: MMC 3200. Ethical problems, codes, and practices in newsrooms. <i>Occasional.</i>			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 3202	COS-COMM	3(3,0)	JPN 1120C	CAH-LANG	4(3,1)	JST 3210	CAH-JUD	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			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>			Kabbalah: Jewish Mysticism: PR: ENC 1102. Jewish mysticism from its early roots in the prophetic age through the flowering of Kabbalah in medieval Spain and the land of Israel, with its texts and the Zohar. <i>Occasional.</i>		
JOU 3313C	COS-COMM	3(2,1)	JPN 1121C	CAH-LANG	4(3,1)	JST 3312	CAH-JUD	3(3,0)
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>			Elementary Japanese Language and Civilization II: PR: JPN 1120C or equivalent. Continuation of JPN 1120C. <i>Spring.</i>			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)	JPN 2200	CAH-LANG	3(3,1)			
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>			Intermediate Japanese Language and Civilization I: PR: JPN 1121C 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>					

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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>	LAE 4314 ED-TLP 3(3,0) Language Arts in the Elementary School: PR: EDG 4410 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>	LAE 5415 ED-TLP 3(3,0) 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>
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>	LAE 4342 ED-TLP 3(3,0) Programs in Teaching Language and Composition: PR: EDG 4410; CR: LAE 4360 and LAE 3940. Special programs, strategies and materials for middle and secondary English Language Arts majors. Emphasis on individual needs of students. <i>Fall.</i>	LAE 5465 ED-TLP 3(3,0) 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>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>	LAE 4360 ED-TLP 3(3,0) English Instructional Analysis: PR: EDG 4410, EDF 4467, TSL 4080, and LAE 4464. CR: LAE 4342 and LAE 3940. 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>	LAE 5495 ED-TLP 3(3,0) 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>
JST 3415 CAH-JUD 3(3,0) American Jewish History: PR: ENC 1102. Jewish presence in America and its influence on and contribution to American life and culture. <i>Occasional.</i>	LAE 4361 ED-TLP 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>	LAH 3130 CAH-HIST 3(3,0) Latin American History I: PR: EUH 2000 and 2001 or C.I. The Colonial period. <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>	LAE 4464 ED-TLP 3(3,0) Survey of Adolescent Literature: PR: ENC 1101 and admission to the college. This course is designed to explore adolescent/young adult literature from an educational and historical perspective. <i>Spring.</i>	LAH 3200 CAH-HIST 3(3,0) Latin American History II: PR: EUH 2000 and 2001 or C.I. The National period. <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>	LAE 5195 ED-TLP 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>	LAH 3400 CAH-HIST 3(3,0) 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>
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>	LAE 5295 ED-TLP 1-3(1-3,0) Writing Workshop: PR: C.I. Students will engage in exploration and practice of effective writing strategies. (May be repeated up to 3 semester hours.) May be repeated for credit. <i>Occasional.</i>	LAH 3470 CAH-HIST 3(3,0) 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>
JST 3620 CAH-JUD 3(3,0) Contemporary Jewish Ethics and Morality: PR: ENC 1102. Moral concerns using the resources of the classical Judaic tradition. <i>Occasional.</i>	LAE 5319 ED-TLP 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>	LAH 4136 CAH-HIST 3(3,0) Colonial Florida: PR: AMH 2010 and AMH 2020 or C.I. History of Spanish Colonial Florida until 1821. <i>Odd Fall.</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>	LAE 5337 ED-TLP 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>	LAH 4461 CAH-HIST 3(3,0) 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>
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>	LAE 5338 ED-TLP 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>	LAH 4480 CAH-HIST 3(3,0) 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>
JST 3810 CAH-JUD 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>	LAE 5346 ED-TLP 3(3,0) 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>	LAH 4742 CAH-HIST 3(3,0) 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>
JST 3820 CAH-JUD 3(3,0) 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>	LAE 5367 CAH-ENG 3(3,0) 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>	LAE 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>
LAE 3414 ED-TLP 3(3,0) 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>		LAS 3101 CAH-LAS 3(3,0) Latin American Popular Culture: PR: SPN 1120C and CR: SPN 1121C. Examines folklore and digital media of Latin American culture with a special focus on Mexico, Puerto Rico, and Peru. <i>Occasional.</i>
		LAS 4023 CAH-AAS 3(3,0) 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>

UCF Courses and Descriptions

LAT 1120C CAH-LANG 4(3,1) 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>	LIN 4643H CAH-ENG 3(3,0) 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>	LIT 3192H CAH-ENG 3(3,0) 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>
LAT 1120H CAH-LANG 4(4,1) 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>	LIN 4660 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>	LIT 3202 CAH-ENG 3(3,0) 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>
LAT 1121 CAH-LANG 4(4,1) Elementary Latin Language and Civilization II: PR: LAT 1120C or equivalent. Continuation of LAT 1120C. <i>Spring.</i>	LIN 4680 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>	LIT 3313 CAH-ENG 3(3,0) Science Fiction: PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings. <i>Occasional.</i>
LAT 1121H CAH-LANG 4(4,1) 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>	LIN 4711 HPA-COM SC&DIS 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>	LIT 3313H CAH-ENG 3(3,0) 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>
LDR 2001 UGST-INTERDISC 2(2,0) Foundations of Leadership: PR: Student enrolled in LEAD Scholars, Leadership Studies minor or certificate. Introductory study into the foundations of leadership, including leadership theories and related principles and practices. <i>Fall.</i>	LIN 4711L HPA-COM SC&DIS 1(0,1) 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>	LIT 3381 CAH-ENG 3(3,0) Women Writers of Color: PR: ENC 1102 or C.I. Examines the cultural productions of women writers of color in the Americas with a particular focus on literature, theory, and film. <i>Occasional.</i>
LDR 2002 UGST-INTERDISC 2(2,0) Intermediate Foundations of Leadership: PR: LDR 2001. Intermediate study of leadership practices as related to translating a leadership vision into organizational effectiveness. Builds on the theories in the prerequisite Foundations of Leadership course. <i>Spring.</i>	LIN 4801 CAH-ENG 3(3,0) Language and Meaning: PR: Grade of C (2.0) or better required in 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>	LIT 3383 CAH-ENG 3(3,0) 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>
LIN 3010 CAH-ENG 3(3,0) 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>	LIN 5137 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>	LIT 3383H CAH-ENG 3(3,0) 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>
LIN 3716 HPA-COM SC&DIS 3(3,0) 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>	LIN 5675 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>	LIT 3394 CAH-ENG 3(3,0) 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>
LIN 3717 HPA-COM SC&DIS 3(3,0) 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>	LIT 2000 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>	LIT 3394H CAH-ENG 3(3,0) 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>
LIN 4105 CAH-ENG 3(3,0) 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>	LIT 2110 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>	LIT 3482 CAH-ENG 3(3,0) Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions. <i>Occasional.</i>
LIN 4615 CAH-ENG 3(3,0) African-American Styles of Communication: PR: Grade of C (2.0) or better required in 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>	LIT 2120 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>	LIT 3823 CAH-ENG 3(3,0) Hispanic Women Writers: PR: ENC 1102. Hispanic women writers in a variety of genres. May be repeated for credit. <i>Occasional.</i>
LIN 4643 CAH-ENG 3(3,0) 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>	LIT 2120H CAH-ENG 3(3,0) World Literature II — Honors: PR: Permission of Honors. Same as LIT 2120, with honors-level content. <i>Occasional.</i>	LIT 3905 CAH-ENG 3(3,0) 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>
	LIT 3082 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>	LIT 3911H CAH-ENG 1(1,0) Research Methods — Honors: PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing. <i>Occasional.</i>
	LIT 3192 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>	

UCF Courses and Descriptions

LIT 4043 CAH-ENG 3(3,0)
Modern Drama As Literature: PR: Grade of C (2.0) or better required in ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama. *Occasional.*

LIT 4184 CAH-ENG 3(3,0)
Irish Literature: PR: Grade of C (2.0) or better required in ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience. *Occasional.*

LIT 4233 CAH-ENG 3(3,0)
Postcolonial Theory and Literature: PR: Grade of C (2.0) or better required in ENG 3014. Focus on the nature of colonial discourse, the strength of postcolonial rewritings, and the relationship of postcolonial theory to other theories. *Occasional.*

LIT 4244 CAH-ENG 3(3,0)
World Authors: PR: ENG 3014. Study of the works of a single non-British and non-U.S. author who composes in English. May be used in the degree program a maximum of 2 times only when course content is different. *Occasional.*

LIT 4303 CAH-ENG 3(3,0)
Post-World War II Fiction: PR: Grade of C (2.0) or better required in ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries. *Occasional.*

LIT 4374 CAH-ENG 3(3,0)
Literature of the Bible: PR: Grade of C (2.0) or better required in ENG 3014. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. *Occasional.*

LIT 4374H CAH-ENG 3(3,0)
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. *Occasional.*

LIT 4433 CAH-ENG 3(3,0)
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. *Fall.*

LIT 4554 CAH-ENG 3(3,0)
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. *Occasional.*

LIT 4937H CAH-ENG 3(3,0)
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. *Occasional.*

LIT 5028 CAH-ENG 3(3,0)
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. *Occasional.*

LIT 5269 CAH-ENG 3(3,0)
Nineteenth-Century Essays: PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century. *Occasional.*

LIT 5309 CAH-ENG 3(3,0)
Popular Culture and Media: PR: Graduate status or senior standing or C.I. Study of contemporary media and the literature of popular culture. *Occasional.*

LIT 5366 CAH-ENG 3(3,0)
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. *Occasional.*

LIT 5387 CAH-ENG 3(3,0)
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. *Occasional.*

LIT 5389 CAH-ENG 3(3,0)
Studies in Gender and Fiction Writing: PR: Graduate status or senior standing or C.I. Graduate study of gender's implications for teaching and practice of fiction writing. *Occasional.*

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". *Occasional.*

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 BalzanoWeierstrass Theorem and the Heine-Borel Theorem. Extensions in Euclidian n-space. *Fall.*

MAA 4227 COS-MATH 3(3,0)
Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226. *Spring.*

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. *Fall.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. The "NC" grading policy applies to this course. *Fall, Spring.*

MAC 1140H COS-MATH 3(3,0)
Honors Pre-Calculus Algebra: PR: Math placement test and permission of Honors. Polynomial, rational, exponential, logarithmic, and piecewise defined functions; matrices, conic sections, sequences and series, binomial theorem, mathematical induction, and applications with additional honors content. The "NC" grading policy applies to this course. *Occasional.*

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. *Even Fall, Spring.*

MAC 2233 COS-MATH 3(3,0)
Concepts of Calculus: PR: MAC 1140 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. *Occasional.*

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. *Occasional.*

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. *Fall, Spring.*

MAC 2311 COS-MATH 4(4,0)
Calculus with Analytic Geometry I: PR: MAC 1140 (or MAC 1105 if taken prior to Summer 2008) and MAC 1114 (or equivalent) or C.I. Analytic geometry; limits, continuity, differentiation of algebraic and trigonometric functions; applications of derivatives; integration and the fundamental theorem of calculus; applications of definite integrals. The "NC" grading policy applies to this course. *Fall, Spring.*

MAC 2311H COS-MATH 4(4,0)
Honors Calculus with Analytic Geometry I: PR: MAC 1140 (or MAC 1105 if taken prior to summer 2008) and MAC 1114 (or equivalent) and consent of Honors. Analytic geometry; limits, continuity, differentiation of algebraic and trigonometric functions; applications of derivatives; integration and the fundamental theorem of calculus; applications of definite integrals. The "NC" grading policy applies to this course. With Honors content. *Fall, Spring.*

MAC 2312 COS-MATH 4(4,0)
Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Differentiation and integration of exponential, logarithmic, inverse trigonometric functions; techniques of integration; further applications of integration; parametric equations, polar coordinates; infinite sequences and series. *Fall, Spring.*

MAC 2312H COS-MATH 4(4,0)
Calculus with Analytic Geometry II (Honors): PR: Permission of Honors. Differentiation and integration of exponential, logarithmic, inverse trigonometric functions; techniques of integration; further applications of integration; parametric equations, polar coordinates; infinite sequences and series. With Honors content. *Fall, Spring.*

MAC 2313 COS-MATH 4(4,0)
Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Geometry of higher dimensional Euclidean space; vectors and vector functions; partial derivatives; multiple integrals; line integrals; vector fields; Green's Theorem and Stoke's Theorem. *Fall, Spring.*

MAC 2313H COS-MATH 4(4,0)
Calculus with Analytic Geometry III (Honors): PR: Permission of Honors. Geometry of higher dimensional Euclidean space; vectors and vector functions; partial derivatives; multiple integrals; line integrals; vector fields; Green's Theorem and Stoke's Theorem. With Honors content. *Spring.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall.*

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. *Spring.*

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. *Odd Spring.*

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. *Fall, Spring.*

MAE 4300 ED-CFCS 3(3,0)
Math Curriculum and Assessment in Early Childhood: PR: EEC 4661, EEC 4207; CR: EEC 3940. Methodologies for teaching and assessing young children in mathematics concepts and skills through an integrated, developmentally appropriate program. *Fall.*

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. *Fall, Spring.*

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. *Fall.*

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. *Spring.*

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.). *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Even Fall.*

MAN 2021 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. *Occasional.*

MAN 3025 BA-MAN 4(4,0)
Management of Organizations: PR: Junior standing and approved major or minor. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control. *Fall, Spring.*

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. *Occasional.*

MAN 3301 BA-MAN 3(3,0)
Management of Human Resources: PR: Junior standing and approved major or minor; MAN 3025. Provides students with a complete, comprehensive review of essential human resource management concepts and techniques. Applicable to all students of management. *Fall, Spring.*

MAN 3302 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. *Occasional.*

MAN 3354 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. *Occasional.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Odd Spring.*

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. *Fall, Spring.*

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. *Fall, Odd Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

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. *Occasional.*

MAN 4600 BA-MAN 3(3,0)
International Management: PR: Approved major or minor, MAN 3025. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management. *Fall, Spring.*

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. *Fall, Spring.*

MAN 4720 BA-MAN 4(4,0)
Strategic Management: PR: MAN 3025, MAR 3023, FIN 3403C 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. *Fall, Spring.*

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. *Occasional.*

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. *Fall, Spring.*

UCF Courses and Descriptions

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>	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>	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>
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. May be repeated for credit. <i>Occasional.</i>	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>	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>
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>	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>	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>
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>	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>	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 inviscous and viscous fluids, energy equation and energy flux, linear theory of gravity and capillary-gravity waves, variational principles for water waves. <i>Occasional.</i>
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>	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>	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>
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>	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>	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>
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>	MAP 4384 COS-MATH 3(3,0) Numerical Methods for Computational Sciences: PR: MAP 2302 and MAS 3105 or C.I. Theory of modern methods of numerical computation and numerical analysis in linear algebra and differential equations; non-linear optimization, finite element methods, adaptive quadrature. <i>Occasional.</i>	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>
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>	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>	MAR 3323 BA-MAR 3(3,0) Integrated Marketing Communication: PR: MAR 3023 with a grade of C (2.0) or better 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>
MAP 3923 COS-MATH 1(1,0) Frontiers in Mathematical Research: Colloquia and Public Talks: PR: MAP 2302 or C.I. Current research in mathematics and related fields, as presented by leading national and international researchers. May not be used to satisfy requirements for mathematics major or minor. Graded S/U. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	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>	MAR 3391 BA-MAR 3(3,0) Professional Selling: PR: MAR 3023 with a grade of C (2.0) or better 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>
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>	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>	MAR 3403 BA-MAR 3(3,0) Sales Force Management: PR: MAR 3023 with a grade of C (2.0) or better 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>
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>	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>	MAR 3503 BA-MAR 3(3,0) Customer Behavior: PR: MAR 3023 with a grade of C (2.0) or better 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>
MAP 4113 COS-MATH 3(3,0) Probability, Random Processes and Applications I: PR: MAC 2313. Elementary probability theory; modes of convergence; martingales; Gaussian, Wiener, and diffusion processes; Brownian motion; applications. <i>Occasional.</i>		

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MAR 3613 BA-MAR 3(3,0)
Marketing Analysis and Research: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and appropriate Major or Minor and one of the following: STA 3032 with a grade of C (2.0) or better or ECO 3411 with a grade of C (2.0) or better. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized. *Fall, Spring.*

MAR 3641 BA-MAR 3(3,0)
Marketing Intelligence: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and appropriate Major or Minor. Contemporary sources and applications of information concerning external forces impacting market decision making. *Fall, Spring.*

MAR 3721 BA-MAR 3(3,0)
E-Marketing: PR: MAR 3023 with a grade of C (2.0) or better 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. *Occasional.*

MAR 4156 BA-MAR 3(3,0)
International Marketing: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and appropriate Major or Minor. Investigates strategy, policy and the variables in international marketing decisions. *Fall, Spring.*

MAR 4231 BA-MAR 3(3,0)
Retailing Management: PR: MAR 3023 with a grade of C (2.0) or better 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. *Occasional.*

MAR 4413C BA-MAR 3(2,3)
Strategic Issues in Sales-Lecture: PR: MAR 3023, MAR 4415C, common program prerequisites, approved major or minor, and department consent. Advanced study of selected contemporary strategic issues in selling and sales management. *Spring.*

MAR 4415C BA-MAR 3(2,3)
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. *Fall.*

MAR 4711 BA-MAR 3(3,0)
Sport Marketing: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and appropriate Major or Minor. Study of marketing as it applies to the sports and leisure industry. *Occasional.*

MAR 4712 BA-MAR 3(3,0)
Healthcare Marketing: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and appropriate Major or Minor. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers. *Occasional.*

MAR 4715 BA-MAR 3(3,0)
Entertainment Marketing: PR: MAR 3023 with a grade of C (2.0) or better 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. *Occasional.*

MAR 4724 BA-MAR 3(3,0)
Strategic Foundations in Global E-Business: PR: MAR 3023 with a grade of C (2.0) or better 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. *Occasional.*

MAR 4803 BA-MAR 3(3,0)
Marketing Management: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and Marketing Major or Minor and MAR 3503 with a grade of C (2.0) or better and MAR 3613 with a grade of C (2.0) or better. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments. *Fall, Spring.*

MAR 4804 BA-MAR 3(3,0)
Marketing Strategy: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and Marketing Major or Minor and MAR 4803 with a grade of C (2.0) or better. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making. *Fall, Spring.*

MAR 4841 BA-MAR 3(3,0)
Services Marketing: PR: MAR 3023 with a grade of C (2.0) or better 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. *Fall, Spring.*

MAR 4934 BA-MAR 3(3,0)
Contemporary Marketing Topics in Florida: PR: MAR 3023 with a grade of C (2.0) or better and Common Program Prerequisites and appropriate major or minor. Advanced study of marketing topics relevant to major business sectors in the state of Florida, e.g., high technology, health care, sustainable marketing, housing, real estate, tourism, hospitality, sports, gaming, etc. Topics may vary from term to term. May be repeated for credit only when course content is different. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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). *Spring.*

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. *Spring.*

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. *Fall.*

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. *Spring.*

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. *Occasional.*

MAS 5145 COS-MATH 3(3,0)
Advanced Linear Algebra and Matrix Theory: PR: MAS 3105, and graduate status or senior standing or C.I. LU and LDU decompositions, linear spaces, inner product spaces, systems of linear equations, eigenvalues and canonical forms, variational principles and applications. *Occasional.*

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. *Fall.*

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. *Fall.*

MCB 1310 COM-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. *Fall, Spring.*

MCB 2004C COM-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. *Spring.* M&S fee: \$45.00

MCB 3020C COM-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. *Fall, Spring.* M&S fee: \$45.00

MCB 3020H COM-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. *Fall.*

MCB 3202 COM-M&M 3(3,0)
Principles of Infectious Disease: PR: MCB 3020C. Introduction to host-pathogen interactions and microbial pathogenesis, with topics covering eukaryotic pathogens, virology, prokaryotic structure, pathogen identification, epidemiology, immunity, vaccines and antimicrobials, and virulence mechanisms. *Occasional.*

MCB 3203 COM-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. *Spring.*

MCB 3203L COM-M&M 1(0,3)
Pathogenic Microbiology: CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms. *Spring.* M&S fee: \$45.00

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<p>MCB 3404 COM-M&M 3(3,0) 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></p>	<p>MCB 5208 COM-M&M 3(3,0) Cellular Microbiology: Host-Pathogen Interactions: PR: Graduate standing, PCB 3522. Examination of the molecular details of host-pathogen interactions. Key areas of cell biology will be considered in relation to microbial pathogenesis. <i>Spring.</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 3522H COM-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 5225 COM-M&M 3(3,0) Molecular Biology of Disease: PR: Graduate standing or C.I. An in-depth study of the molecular biological mechanism of diseases in experimental animal models and human populations. <i>Occasional.</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>
<p>MCB 4114C COM-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 5505 COM-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>MHS 5005 ED-CFCS 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></p>
<p>MCB 4203 COM-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 5527 COM-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 indepth. <i>Fall.</i></p>	<p>MLS 3220C COM-M&M 3(3,3) 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</p>
<p>MCB 4204 COM-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 5654 COM-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>MLS 3305 COM-M&M 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></p>
<p>MCB 4276 COM-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 5722C COM-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>MLS 3305L COM-M&M 1(0,6) Hematology Lab: PR: MLS 3305. Practical laboratory procedures routinely performed for analyzing hematologic abnormalities. <i>Spring.</i></p>
<p>MCB 4312 COM-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>MCB 5932 COM-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>MLS 3705 COM-M&M 3(3,0) 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></p>
<p>MCB 4414 COM-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>MET 2104 COS-PHYS 3(3,0) The Earth's Climate: History, physics and dynamics of the Earth's climate. <i>Odd Spring.</i></p>	<p>MLS 4334 COM-M&M 3(3,0) 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></p>
<p>MCB 4503C COM-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>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>MLS 4420C COM-M&M 1(1,2) 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</p>
<p>MCB 4603 COM-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>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>MLS 4430C COM-M&M 2(1,3) 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</p>
<p>MCB 4720 COM-M&M 3(3,0) Industrial Perspectives Seminar: PR: Biotechnology major and CR: MCB 3020C. Concepts and techniques of basic research and drug development. Speakers from the biotechnology/pharmaceutical industry will show applications. <i>Fall.</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>MLS 4460C COM-M&M 5(3,6) 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</p>
<p>MCB 4721C COM-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> M&S fee: \$45.00</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>MLS 4505C COM-M&M 3(3,0) Immunodiagnostics: PR: PCB 3233. Theory and application of immunologic principles and their use in diagnosis of human disease. <i>Spring.</i> M&S fee: \$45.00</p>
<p>MCB 5205 COM-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>MLS 4550 COM-M&M 4(2,6) 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: \$45.00</p>

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MLS 4625 COM-M&M 3(3,0)
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. *Fall.*

MLS 4625L COM-M&M 1(0,3)
Advanced Clinical Chem I Lab: CR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory. *Fall.* M&S fee: \$45.00

MLS 4630 COM-M&M 3(3,0)
Advanced Clinical Chemistry II: PR: CHM 2210, PCB 3703C or C.I. Correlation of laboratory tests to specific human disease states. *Spring.*

MLS 4630L COM-M&M 1(0,3)
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. *Occasional.*

MLS 4830C COM-M&M 4(4,8)
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. *Fall.* M&S fee: \$15.00

MLS 4831C COM-M&M 4(4,8)
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. *Fall.* M&S fee: \$15.00

MLS 4832C COM-M&M 4(4,8)
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. *Fall.* M&S fee: \$15.00

MLS 4833C COM-M&M 4(4,8)
Diagnostic Microbiology: PR: Admission to the MLS program, MLS 4460C. Practical application of modern bacterial procedures with clinical specimens to include mycology & virology and appropriate quality control. Clinical practice in both student lab and affiliate. *Fall.* M&S fee: \$15.00

MLS 4834C COM-M&M 4(4,8)
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. *Occasional.*

MLS 4910 COM-M&M 1(1,0)
Introduction to Clinical Research: PR: MLS 3220C, MLS 4625, MLS 4550. Introduces MLS students to different types of research within the clinical setting. *Spring.*

MLS 4933 COM-M&M 2(2,0)
Medical Technology Seminar: PR: MLS Senior status. Review of MLS coursework, case study discussions and preparation for certification. Graded S/U. *Spring.*

MMC 2004 COS-COMM 3(3,0)
Mass Media: Introduction to the nation's mass media, including newspapers, radio, television, magazines, advertising, and public relations. *Fall, Spring.*

MMC 3200 COS-COMM 3(3,0)
Mass Communication Law: PR: AMH 2010 or AMH 2020 or POS 2041. Legal rights and responsibilities of the mass media. *Fall, Spring.*

MMC 3420 COS-COMM 3(3,0)
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. *Fall, Spring.*

MMC 4263 COS-COMM 3(3,0)
New Media Technologies: PR: Majors only, RTV 3200. An examination of the technologies impacting the communications media environment and society. *Occasional.*

MMC 4300 COS-COMM 3(3,0)
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. *Occasional.*

MMC 4411 COS-COMM 3(3,0)
AD/PR campaigns: PR: AD/PR majors only and ADV 3008, PUR 4000, PUR 3100 or ADV 4101, PUR 4941 or ADV 4941. Planning and managing communication campaigns that integrate both advertising and public relations strategies. Capstone. *Even Fall, Odd Spring.*

MMC 4602 COS-COMM 3(3,0)
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. *Even Spring.*

MSL 1001C ECS-AROTC 2(1,1)
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. *Fall.*

MSL 1002C ECS-AROTC 2(1,1)
Basic Leadership: Presents fundamental leadership concepts and doctrine; practice basic skills that underlie effective problem solving; examine the officer experience. *Spring.*

MSL 2101C ECS-AROTC 2(1,1)
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. *Fall.*

MSL 2102C ECS-AROTC 2(1,1)
Leadership and Teamwork: Focuses on self-development guided by knowledge of self and group processes; challenges current beliefs, knowledge and skills. *Spring.*

MSL 3201C ECS-AROTC 4(3,1)
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. *Fall.*

MSL 3202C ECS-AROTC 4(3,1)
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. *Spring.*

MSL 4301C ECS-AROTC 4(3,1)
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. *Fall.*

MSL 4302C ECS-AROTC 4(3,1)
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. *Spring.*

MTG 4212 COS-MATH 4(4,0)
Modern Geometries: PR: MAC 2311 and MHF 3302. 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. *Fall.*

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 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 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.*

MUC 5445 CAH-MUSIC 3(3,0)
Electroacoustic Music Composition: PR: MUS 2360C and MUC 1101C, or C.I. Creation of electroacoustic music, including synthesis, sample editing, and performance practices. *Occasional.*

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<p>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. <i>Fall.</i></p>	<p>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. <i>Odd Spring.</i></p>	<p>MUE 4480C CAH-MUSIC 1(1,1) Marching Band Techniques: PR: MUT 1122 and C.I. Principles of organizing and training marching bands: Planning, charting football shows, rehearsal problems. Guided observations. May be repeated for credit. <i>Fall.</i></p>
<p>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. <i>Occasional.</i></p>	<p>MUE 3942 CAH-MUSIC 3(3,0) Music Internship I: PR: MUE 4311, MUE 3333, EDF 4410, TSL 4080, EDF 4603 and RED 4043. Students experience various roles of a music teacher in elementary and secondary settings, including observation, micro-teaching, and the completion of various assignments. Graded S/U. <i>Fall, Spring.</i></p>	<p>MUE 4481 CAH-MUSIC 1(1,0) Jazz Pedagogy: PR: Music major, MUT 1122 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level. <i>Occasional.</i></p>
<p>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. <i>Odd Spring.</i></p>	<p>MUE 4311 CAH-MUSIC 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. <i>Fall.</i></p>	<p>MUE 4943 CAH-MUSIC 12(12,0) Music Internship II: PR: MUE 3942. Student Teaching in an elementary or secondary school under supervision of a certified classroom teacher. Graded S/U. <i>Fall, Spring.</i></p>
<p>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. <i>Spring.</i> M&S fee: \$30.00</p>	<p>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. <i>Spring.</i></p>	<p>MUE 5348C CAH-MUSIC 4(4,0) 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></p>
<p>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. <i>Fall.</i></p>	<p>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. <i>Odd Spring.</i></p>	<p>MUE 5921 CAH-MUSIC 2(2,0) Music Education Workshop: PR: Graduate standing or C.I. Variable topics in Music Education to offer hands-on instruction in a workshop format. May be used in the degree program a maximum of 4 times only when course content is different. <i>Occasional.</i></p>
<p>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. <i>Fall.</i></p>	<p>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. <i>Odd Spring.</i></p>	<p>MUG 3104 CAH-MUSIC 2(1,1) Basic Conducting: PR: MUT 1122 or C.I. Fundamental techniques and practice in conducting. <i>Fall.</i></p>
<p>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. <i>Spring.</i> M&S fee: \$35.00</p>	<p>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. <i>Odd Spring.</i></p>	<p>MUG 3202 CAH-MUSIC Variable Choral Conducting and Materials: PR: MUG 3104. Fundamental principles of choral conducting and rehearsal techniques including an examination of materials. <i>Even Spring.</i></p>
<p>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. <i>Odd Spring.</i> M&S fee: \$35.00</p>	<p>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. <i>Odd Spring.</i></p>	<p>MUG 3302 CAH-MUSIC Variable Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials. <i>Spring.</i></p>
<p>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. <i>Fall, Spring.</i></p>	<p>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. Graded S/U. May be repeated for credit. <i>Occasional.</i></p>	<p>MUG 4103C CAH-MUSIC 2(1,1) 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></p>
<p>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. <i>Odd Spring.</i></p>	<p>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. <i>Occasional.</i></p>	<p>MUH 2017 CAH-MUSIC 3(3,0) Survey of Rock Music: Rise of rock music to prominence, and its impact on audience reception. No musical background required. <i>Fall, Spring.</i></p>
<p>MUE 3353 CAH-MUSIC 2(2,0) General Music Literature and Techniques: PR: MUE 2040. Diverse literature and techniques for the general music classroom. <i>Odd Spring.</i></p>	<p>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. <i>Odd Fall.</i></p>	<p>MUH 2017H CAH-MUSIC 3(3,0) Honors Survey of Rock Music: PR: Consent of Honors. Rock music, 1950s to present, with emphasis on cultural and musical meaning. With Honors content. <i>Even Fall.</i></p>
<p>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. <i>Occasional.</i></p>	<p>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. <i>Odd Spring.</i></p>	<p>MUH 2019 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></p>
<p>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. <i>Odd Spring.</i></p>	<p>MUE 4441 CAH-MUSIC 3(3,0) String Methods: PR: MUE 4332. String teaching methods for high school students in a large classroom setting. <i>Odd Spring.</i></p>	<p>MUH 2071C CAH-MUSIC 1(0,1) World Music Survey and Performance Laboratory: PR: MUT 1122 or C.I. An introduction to different musical cultures including West African, Caribbean, South American, and Asian. <i>Occasional.</i></p>
<p>MUE 3490 CAH-MUSIC 1(1,0) Aural Skills Techniques: PR: MUT 2127. Teaching techniques for teaching audiation, sight singing, harmony, beginning vocal harmonization and improvisation. <i>Odd Spring.</i></p>		<p>MUH 3211 CAH-MUSIC 3(3,0) Music History and Literature I: PR: MUT 1122. History of Western European art music from Antiquity to 1750. <i>Fall.</i></p>

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MUH 3212 CAH-MUSIC 3(3,0)
Music History and Literature II: PR: MUT 1122. History of Western European and American art music from 1750 to present day. *Spring.*

MUH 4218 CAH-MUSIC 1(1,0)
Review of Music History: PR: C.I. A review of music history from Ancient Greece to the present. *Occasional.*

MUH 4322 CAH-MUSIC 3(3,0)
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. *Even Fall.*

MUH 4341 CAH-MUSIC 3(3,0)
Music of the Baroque: PR: MUH 3211 and MUH 3212. Music and culture during the Baroque period, 1600-1750. *Occasional.*

MUH 4351 CAH-MUSIC 3(3,0)
Eighteenth-Century Music: PR: MUH 3211 and MUH 3212 or C.I. Music and culture of Western Europe in the era c. 1700-1830. *Even Fall.*

MUH 4361 CAH-MUSIC 3(3,0)
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. *Odd Fall.*

MUH 4371 CAH-MUSIC 3(3,0)
Music Since 1900: PR: MUH 3211, MUH 3212, or C.I. Western art music since 1900. *Odd Spring.*

MUH 4814 CAH-MUSIC 3(3,0)
Jazz Styles and Analysis: PR: MUT 3171 and MUL 2016, or C.I. Historical style periods and master artists in jazz music. *Odd Spring.*

MUH 5326 CAH-MUSIC 3(3,0)
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. *Occasional.*

MUH 5345 CAH-MUSIC 3(3,0)
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. *Even Spring.*

MUH 5356 CAH-MUSIC 3(3,0)
Eighteenth-Century Music: PR: Graduate standing in music education or C.I. Music and culture of Western Europe in the era c. 1700-1800. *Occasional.*

MUH 5365 CAH-MUSIC 3(3,0)
Music of the 19th Century: PR: Graduate standing in Music or C.I. Western Art Music of the 19th Century. *Odd Fall.*

MUH 5375 CAH-MUSIC 3(3,0)
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. *Occasional.*

MUH 5816 CAH-MUSIC 3(3,0)
Jazz Styles and Analysis: PR: Graduate standing or C.I. Advanced study of historical style periods and master artists in jazz music. *Odd Fall.*

MUL 2010 CAH-MUSIC 3(2,1)
Enjoyment of Music: PR: Non-music majors only. Designed to develop an understanding of musical principles and techniques for listening to music. *Fall, Spring.*

MUL 2014 CAH-MUSIC 3(3,0)
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. *Odd Spring.*

MUL 2016 CAH-MUSIC 3(3,0)
Evolution of Jazz: Survey of jazz literature and performance. *Fall, Spring.*

MUL 2720 CAH-MUSIC 3(3,0)
Music of the World: Music in cross-cultural context. Relation of music to religion and society. *Fall, Spring.*

MUL 3381 CAH-MUSIC 3(3,0)
Contemporary Popular Music: PR: MUL 2010 or MUT 1122 or C.I. History and analysis of selected genres in recent popular music. Music reading not required. *Spring.*

MUL 3400 CAH-MUSIC 2(1,1)
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. *Odd Fall.*

MUL 3401 CAH-MUSIC 2(1,1)
Piano Literature II: PR: MUL 3400. Continuation of MUL 3400. *Even Spring.*

MUL 3463 CAH-MUSIC 2(2,0)
Percussion Literature: PR: Music major (Percussion), Junior standing, C.I. Survey of music written for percussion instruments. *Odd Fall.*

MUL 3602 CAH-MUSIC 3(3,0)
Song Literature: PR: MUL 2014 or C.I. Classical song repertoire in English and common foreign languages, and proven methods of effective song study. *Odd Fall.*

MUL 3603 CAH-MUSIC 1(1,1)
American/English Song Literature: PR: C.I. Survey of songs written by American or English composers. *Even Spring.*

MUL 3604 CAH-MUSIC 1(1,1)
German Song Literature: PR: Music major or C.I. Survey of German song literature. *Odd Spring.*

MUL 3605 CAH-MUSIC 1(1,1)
French Song Literature: PR: Music major or C.I. Survey of French song literature. *Odd Fall.*

MUL 4437 CAH-MUSIC 3(3,0)
String Literature and Pedagogy: PR: MUL 2014. Important literature written for string instruments, and basic concepts and techniques to teach string. *Odd Spring.*

MUL 4438 CAH-MUSIC 3(3,0)
Guitar Literature and Pedagogy: PR: MVS 2426 or C.I. Overview of classical guitar literature, history, and pedagogy from the Renaissance to the present. *Odd Fall.*

MUL 4443 CAH-MUSIC 3(3,0)
Brass Literature and Pedagogy: PR: MUL 2014. Important literature written for brass instruments, and basic concepts and techniques to teach brass. *Odd Spring.*

MUL 4444 CAH-MUSIC 3(3,0)
Woodwind Literature and Pedagogy: PR: Music major and MUL 2014. Important literature written for woodwind instruments, and basic concepts and techniques to teach woodwinds. *Odd Spring.*

MUL 5215 CAH-MUSIC 3(3,0)
Electronic Music Literature: PR: MUL 2010, MUL 2014, MUL 2016, MUH 2017, or MUH 2019, or C.I. Survey of electronic music and music technology with emphasis on history, sociological perspectives and aesthetics. *Occasional.*

MUL 5436 CAH-MUSIC 3(3,0)
Guitar Literature and Pedagogy: PR: Graduate standing in Music or C. I. Survey of significant repertoire and pedagogy for classical guitar. *Odd Spring.*

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. *Spring.*

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. *Fall.* M&S fee: \$30.00

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. *Fall.* 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. *Fall, Spring.* 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. *Fall, Spring.* 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. *Fall, Spring.* 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. *Fall, Spring.* 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. *Fall, Spring.* 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. *Fall, Spring.* 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. *Fall, Spring.* M&S fee: \$20.00

MUN 3426 CAH-MUSIC 1(1,0)
Saxophone Ensemble: PR: Students must pass an audition in front of the instructor. An in-depth study and performance of music written for an ensemble comprised of all saxophones. May be used in the degree program a maximum of 8 times. *Fall, Spring.*

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. *Occasional.* 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. *Fall, Spring.* M&S fee: \$20.00

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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 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: \$20.00	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>
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 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	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>
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> M&S fee: \$20.00	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: \$20.00	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>
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 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	MUS 4320 CAH-MUSIC 3(3,0) Music Business and Industry: PR: MUS 2360C or C.I. Today's music industry copyright, publishing, contracts and licensing. <i>Odd Spring.</i>
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> M&S fee: \$20.00	MUN 5715L CAH-MUSIC 1(0,4) Jazz Ensemble: PR: Audition, graduate or senior standing, and C.I. Study and performance of jazz big band music. May be used in the degree program a maximum of 4 times only when course content is different. <i>Fall, Spring.</i> M&S fee: \$20.00	MUS 4330 CAH-MUSIC 2(1,1) Recording Techniques for Classical Music: PR: MUL 2010 or C.I. Concert hall recording techniques for classical music. <i>Occasional.</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 5716L CAH-MUSIC 1(0,2) Jazz Chamber Group: PR: Audition, graduate standing or senior standing, and C. I. Study and performance of jazz small group music. May be used in the degree program a maximum of 4 times. <i>Fall, Spring.</i> M&S fee: \$20.00	MUS 4900 CAH-MUSIC 3(3,0) 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>
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: \$20.00	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>	MUS 4905 CAH-MUSIC 1-4(1-4) 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>
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>	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: \$45.00	MUS 4954 CAH-MUSIC 0(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>
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: \$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> M&S fee: \$45.00	MUS 5365 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>
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	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 5677 CAH-MUSIC 3(3,0) 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>
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	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>	MUT 1002 CAH-MUSIC 3(3,0) Fundamentals of Music II: PR: MUT 1004. Theory and sight singing skills. <i>Occasional.</i>
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	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>	MUT 1004 CAH-MUSIC 3(3,0) Fundamentals of Music I: Basic music theory and reading music at the keyboard. <i>Fall.</i>
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	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	MUT 1121 CAH-MUSIC 4(2,3) 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>
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		MUT 1122 CAH-MUSIC 4(2,3) 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>

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MUT 2126 CAH-MUSIC 4(2,3)
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. *Odd Spring.*

MUT 2127 CAH-MUSIC 4(2,3)
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. *Odd Spring.*

MUT 3170 CAH-MUSIC 3(3,0)
Jazz Theory I: PR: MUT 1122 or C.I. Study of theoretical concepts in jazz music, including practical keyboard applications. *Even Fall.*

MUT 3171 CAH-MUSIC 3(3,0)
Jazz Theory II: PR: MUT 3170. Advanced study of theoretical concepts in jazz music, including practical keyboard applications. *Odd Spring.*

MUT 3622 CAH-MUSIC 3(3,0)
Analytical Approaches to Musical Rhythm: PR: MUT 2127 or equivalent or C.I. Contemporary, cognitive, hyper-metric, and projective approaches to musical rhythm, rhythm in dance, performance, and non-Western music. *Occasional.*

MUT 3923 CAH-MUSIC 3(0,3)
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. *Odd Spring.*

MUT 4031 CAH-MUSIC 1(1,0)
Review of Music Theory: PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit. *Occasional.*

MUT 4311 CAH-MUSIC 3(3,0)
Orchestration: PR: MUS 2360C and MUT 2127. Technical and aesthetic principles of writing for instruments of the concert orchestra. *Odd Spring.*

MUT 4401 CAH-MUSIC 3(3,0)
Counterpoint: PR: MUT 2127. Counterpoint in Western music from the 16th to the 20th Centuries. *Even Spring.*

MUT 4571 CAH-MUSIC 3(3,0)
Analysis of Twentieth-Century Music: PR: MUT 2127 or equivalent. Techniques of analysis for various styles of twentieth-century music. *Odd Fall.*

MUT 5381 CAH-MUSIC 3(3,0)
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. *Even Fall.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

MVB 1411 CAH-MUSIC 2(1,1)
Trumpet I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVB 1412 CAH-MUSIC 2(1,1)
French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVB 1413 CAH-MUSIC 2(1,1)
Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVB 1414 CAH-MUSIC 2(1,1)
Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVB 1415 CAH-MUSIC 2(1,1)
Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Even Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

MVB 5451 CAH-MUSIC 2(1,0)
Trumpet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVB 5452 CAH-MUSIC 2(1,0)
French Horn V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVB 5453 CAH-MUSIC 2(1,0)
Trombone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVB 5454 CAH-MUSIC 2(1,0)
Baritone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVB 5455 CAH-MUSIC 2(1,0)
Tuba V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

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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>	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 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>
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>	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 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>
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>	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 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>
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>	MVJ 5350C CAH-MUSIC 2(1,1) Jazz Piano V: PR: Audition, graduate standing or senior standing, and C.I. Study of jazz piano literature, styles, and techniques. May be used in the degree program a maximum of 3 times. <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>
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>	MVJ 5353C CAH-MUSIC 2(1,1) Jazz Guitar V: PR: Audition, graduate standing or senior standing, and C.I. Study of jazz guitar literature, styles and techniques. May be used in the degree program a maximum of 3 times only when course content is different. <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>
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>	MVJ 5354C CAH-MUSIC 2(1,1) Jazz Bass V: PR: Audition, graduate standing or senior standing, and C.I. Study of jazz bass literature, styles and techniques. May be used in the degree program a maximum of 3 times only when course content is different. <i>Fall, Spring.</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>
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>	MVJ 5359C CAH-MUSIC 2(1,1) Jazz Drum Set V: PR: Audition, graduate standing or senior standing, and C.I. Study of jazz drum set literature, styles, and techniques. May be used in the degree program a maximum of 3 times only when course content is different. <i>Fall, Spring.</i> M&S fee: \$35.00	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>
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>	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 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>
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>	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 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>
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>	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>	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>
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 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>	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>
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 1800 CAH-MUSIC 2(2,0) Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training. <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 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 1801 CAH-MUSIC 2(2,0) Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I. <i>Occasional.</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
	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 2421 CAH-MUSIC 2(1,1) Percussion II: PR: MVK 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

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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. *Fall, Spring.* M&S fee: \$35.00

MVP 3630 CAH-MUSIC 2(2,0)
Percussion Pedagogy: PR: Music major, C.I. Teaching methods and materials for percussion students and groups. *Fall, Spring.*

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. *Fall, Spring.* M&S fee: \$35.00

MVP 5451 CAH-MUSIC 2(1,0)
Percussion V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.* M&S fee: \$35.00

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

MVS 1411 CAH-MUSIC 2(1,1)
Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVS 1412 CAH-MUSIC 2(1,1)
Viola I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVS 1413 CAH-MUSIC 2(1,1)
Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVS 1414 CAH-MUSIC 2(1,1)
Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVS 1415 CAH-MUSIC 2(1,1)
Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVS 1416 CAH-MUSIC 2(1,1)
Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

MVS 5451 CAH-MUSIC 2(1,0)
Violin V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVS 5452 CAH-MUSIC 2(1,0)
Viola V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVS 5453 CAH-MUSIC 2(1,0)
Cello V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVS 5454 CAH-MUSIC 2(1,0)
Bass V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVS 5455 CAH-MUSIC 2(1,0)
Harp V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVS 5456 CAH-MUSIC 2(1,0)
Guitar V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVV 1111 CAH-MUSIC 1(0,1)
Class Voice: Class instruction in beginning voice. May be repeated for credit. *Fall, Spring.*

MVV 1411 CAH-MUSIC 2(1,1)
Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Odd Spring.*

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. *Odd Spring.*

MVV 5451 CAH-MUSIC 2(1,0)
Voice V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVV 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. *Fall, Spring.*

MVV 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. *Fall, Spring.*

MVV 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. *Fall, Spring.*

MVV 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. *Fall, Spring.*

MVV 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. *Fall, Spring.*

MVV 1411 CAH-MUSIC 2(1,1)
Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVV 1412 CAH-MUSIC 2(1,1)
Oboe I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVV 1413 CAH-MUSIC 2(1,1)
Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVV 1414 CAH-MUSIC 2(1,1)
Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.* M&S fee: \$20.00

MVV 1415 CAH-MUSIC 2(1,1)
Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

MVV 2421 CAH-MUSIC 2(1,1)
Flute II: PR: MVV 1411 and competence determined by faculty jury. Continuation of MVV 1411. May be repeated for credit. *Fall, Spring.*

MVV 2422 CAH-MUSIC 2(1,1)
Oboe II: PR: MVV 1412 and competence determined by faculty jury. Continuation of MVV 1412. May be repeated for credit. *Fall, Spring.*

MVV 2423 CAH-MUSIC 2(1,1)
Clarinet II: PR: MVV 1413 and competence determined by faculty jury. Continuation of MVV 1413. May be repeated for credit. *Fall, Spring.*

MVV 2424 CAH-MUSIC 2(1,1)
Bassoon II: PR: MVV 1414 and competence determined by faculty jury. Continuation of MVV 1414. May be repeated for credit. *Fall, Spring.* M&S fee: \$20.00

MVV 2425 CAH-MUSIC 2(1,1)
Saxophone II: PR: MVV 1415 and competence determined by faculty jury. Continuation of MVV 1415. May be repeated for credit. *Fall, Spring.*

MVV 3431 CAH-MUSIC 2-3(1,1)
Flute III: PR: MVV 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. *Fall, Spring.*

MVV 3432 CAH-MUSIC 2-3(1,1)
Oboe III: PR: MVV 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. *Fall, Spring.*

MVV 3433 CAH-MUSIC 2-3(1,1)
Clarinet III: PR: MVV 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. *Fall, Spring.*

MVV 3434 CAH-MUSIC 2-3(1,1)
Bassoon III: PR: MVV 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. *Fall, Spring.*

MVV 3435 CAH-MUSIC 2-3(1,1)
Saxophone III: PR: MVV 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. *Fall, Spring.*

MVV 4441 CAH-MUSIC 4(1,1)
Flute IV: PR: MVV 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. *Fall, Spring.*

MVV 4442 CAH-MUSIC 4(1,1)
Oboe IV: PR: MVV 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. *Fall, Spring.*

MVV 4443 CAH-MUSIC 4(1,1)
Clarinet IV: PR: MVV 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. *Fall, Spring.*

MVV 4444 CAH-MUSIC 4(1,1)
Bassoon IV: PR: MVV 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. *Fall, Spring.*

MVV 4445 CAH-MUSIC 4(1,1)
Saxophone IV: PR: MVV 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. *Fall, Spring.*

MVV 5451 CAH-MUSIC 2(1,0)
Flute V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVV 5452 CAH-MUSIC 2(1,0)
Oboe V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVV 5453 CAH-MUSIC 2(1,0)
Clarinet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVV 5454 CAH-MUSIC 2(1,0)
Bassoon V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

MVV 5455 CAH-MUSIC 2(1,0)
Saxophone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

NGR 5003 CON-NURS 2(2,0)
Advanced Health Assessment and Diagnostic Reasoning: PR: or CR: NGR 5141; CR: NGR 5003L. Concepts and skills of advanced health assessment over the lifespan. Application of the diagnostic reasoning process through differential diagnoses. *Fall, Spring.*

NGR 5003L CON-NURS 1(0,1)
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. *Fall, Spring.* M&S fee: \$45.00

NGR 5090 CON-NURS 3(3,0)
Urgent Care for the Advanced Practice Nurse: PR: NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings. *Occasional.*

NGR 5141 CON-NURS 3(3,0)
Pathophysiological Bases for Advanced Nursing Practice: PR: Baccalaureate degree in Nursing. Critical examination of the physiological and pathophysiological mechanisms affecting individuals. *Fall, Spring.*

NGR 5638 CON-NURS 3(3,0)
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. *Fall, Spring.*

NGR 5660 CON-NURS 3(3,0)
Health Disparities: Issues and Strategies: PR: Graduate standing. Explores disparities in access, utilization, services, outcomes, and status for different U.S. populations: data, research, programmatic issues, and strategies to close the gaps. *Occasional.*

NGR 5690 CON-NURS 3(3,0)
Interdisciplinary Care at End-of-Life: PR: Graduate status or C.I. Examination of interdisciplinary roles and strategies for enabling patients, families; and caregivers to approach end-of-life free from avoidable distress and suffering. *Fall.*

NGR 5720 CON-NURS 3(3,0)
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. *Fall.*

NGR 5745 CON-NURS 1(1,0)
Professional Obligations and Activities of Advanced Practice Nursing: PR: NGR 5883 and NGR 5891. Admission to MSN program or C.I. Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam. *Fall, Spring.*

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. *Fall, Spring.*

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. *Fall.*

NGR 5883 CON-NURS 1(1,0)
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. *Fall, Spring.*

NGR 5891 CON-NURS 1(1,0)
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. *Fall, Spring.*

NGR 5894C CON-NURS 3(2,1)
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. *Occasional.*

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. *Fall.*

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. *Fall.*

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. *Fall.* M&S fee: \$45.00

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. *Fall, Spring.*

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. *Fall, Spring.* M&S fee: \$15.00

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. *Fall.*

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. *Fall.*

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 C.I. Nursing research as a basis for nursing practice. Selected experiences in reviewing, analyzing, and interpreting nursing research for nursing practice. *Fall, Spring.*

NUR 3165H CON-NURS 3(3,0)
Nursing Research: PR: Permission of honors; admission to nursing and completion of previous nursing courses; STA 2014C or 2023; co-requisites per the plan of study or C.I. Nursing research as a basis for nursing practice. Selected experiences in reviewing, analyzing, and interpreting research for nursing practice. With Honors content. *Occasional.*

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. *Spring.*

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. *Fall.*

NUR 3225L CON-NURS 2(0,6)
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. *Fall.* M&S fee: \$45.00

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. *Fall.*

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. *Fall.* M&S fee: \$45.00

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. *Fall.*

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. *Fall.* M&S fee: \$45.00

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. *Fall.* M&S fee: \$45.00

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. *Occasional.*

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. *Fall, Spring.*

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. *Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Occasional.*

NUR 4177 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. *Occasional.*

NUR 4227 CON-NURS 4(4,0)
Nursing Care of the Adult II: PR: Admission to the BSN program. CR: successful completion of the first two semesters in the nursing curriculum, NUR 4227L; NUR 4535; NUR 4535L; or C.I. Nursing care of clients and their families experiencing acute, unstable, or life-threatening health problems. *Spring.*

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NUR 4227L CON-NURS 3(0,3)
Nursing Care of the Adult II: Clinical Practice: PR: Admission to BSN program, CR: successful completion of the first three semesters in the nursing curriculum, NUR 4227; NUR 4535; NUR 4535L; or C.I. Clinical practice in acute health care settings with clients experiencing acute, unstable, surgical, or life-threatening health conditions. Graded S/U. *Spring.*

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. *Spring.*

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. *Occasional.*

NUR 4493 CON-NURS 3(3,0)
Perinatal Loss and Grief: Nursing Interventions: PR: Admission to the Nursing Program, RN licensure, or C.I. Nursing interventions for individuals and families experiencing perinatal loss and grief. *Occasional.*

NUR 4516 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. *Occasional.*

NUR 4535 CON-NURS 3(3,0)
Psychiatric Mental Health Nursing: PR: Admission to BSN program, successful completion of the first three semesters in the Nursing curriculum, and concurrent enrollment in NUR 4227; NUR 4227L; NUR 4535L. Nursing in the promotion of mental health and the prevention, treatment, and rehabilitation of mental illness. *Fall, Spring.*

NUR 4535L CON-NURS 2 (0,2)
Psychiatric Mental Health Clinical: PR: Admission to BSN program, successful completion of the first three semesters in the nursing curriculum, and concurrent enrollment in NUR 4535; NUR 4227; NUR 4227L. Clinical Application of Nursing interventions in the promotion of mental health and the prevention, treatment and rehabilitation of mental illness. *Fall, Spring.*

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. *Occasional.*

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 4637. 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. *Fall, Spring.*

NUR 4637 CON-NURS 2(2,0)
Public Health Nursing: PR: Admission to the BSN program, successful completion of the first four semesters in the nursing curriculum, and concurrent enrollment in NUR 4945L Nursing Practicum; NUR 4637L; NUR 4257. Concepts of public health nursing focusing on population-based health care delivery systems. *Fall, Spring.*

NUR 4637L CON-NURS 1(0,1)
Public Health Nursing Clinical: PR: Admission to the BSN program, successful completion of the first four semesters in the nursing curriculum, and concurrent enrollment in NUR 4945L Directed Practice; NUR 4637; NUR 4257. Clinical Course to apply concepts of public health nursing. Students will apply findings of community assessment completed in NUR 4637 Public Health Nursing. *Fall, Spring.*

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. *Occasional.*

NUR 4758 CON-NURS 3(3,0)
Death & Dying: Nursing Considerations: PR: Admission to the Nursing Program, RN licensure, or C.I. An in-depth look at issues encountered in nursing practice related to the process of death, dying, and end of life. *Occasional.*

NUR 4760 CON-NURS 3(3,0)
Principles of Pain Management: PR: Admission to the Nursing Program, RN License, or C.I. Principles of pain and pain management across the lifespan from neonates to the elderly, including practices across healthcare settings, from acute care to home care. *Occasional.*

NUR 4765 CON-NURS 3(3,0)
Rehabilitation Nursing: Principles and Practice: PR: Admission to the nursing program, or RN license, or C.I. Rehabilitation principles are the practices that may be incorporated into any healthcare setting and applied to clients of all age groups. *Occasional.*

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. *Fall, Spring.*

NUR 4828 CON-NURS 3(3,0)
Nursing Leadership, Management and Role Transition: PR: Admission to the BSN program, successful completion of the first four semesters in the nursing curriculum, and concurrent enrollment in NUR 4945L Directed Practice; NUR 4637; NUR 4637L; NUR 4257. Professional development and role transition of baccalaureate graduates entering professional nursing practice focusing on principles of leadership and management applied to health care settings. *Fall, Spring.*

NUR 4829 CON-NURS 3(3,0)
Accelerated Transitioning into Professional Practice as a Leader: PR: or CR: NUR 4945L or C.I. Application of leadership and management principles to the beginning role of the professional nurse. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

NUR 4898 CON-NURS 3(3,0)
Forensic Nursing Principles and Practice: PR: NUR 3825 or NUR 3805 and completion of two semesters of a Nursing program or C.I. Forensic Nursing principles and practices applied to a variety of settings; an examination of the scope of practice of forensic nursing. *Occasional.*

NUR 4906 CON-NURS Variable
Independent Study: Directed Study. Graded S/U or Letter grade. May be repeated for credit. *Occasional.*

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. Graded S/U or Letter grade. *Occasional.*

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. *Occasional.*

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. *Fall.*

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. *Occasional.*

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. *Spring.*

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. *Occasional.*

OCE 3008 COS-BIOL 3(3,0)
Oceanography: PR: BSC 2010C, CHM 2045C, and CHM 2046. Biological, physical and chemical oceanography. *Occasional.*

OSE 3490 OPT-OPT 3(3,0)
Nanophotonics: PR: PHY 2049 or C.I. Optical/photon processes on nano scale and interactions with elements of physics & engineering. *Occasional.*

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. *Occasional.*

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. *Fall, Spring.*

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. *Fall, Spring.*

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. *Occasional.*

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. *Fall.*

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. *Occasional.*

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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>	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>	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>
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>	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>	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>
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>	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>	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>
PAD 3930 HPA-HPA 1(1,0) American Humanities Human Service Workshop: PR: Enrollment in American Humanities Minor or National Certificate Program through American Humanities Program office. Discussion and activity based course exploring nonprofit 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>	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>	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>
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>	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>	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>
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>	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>	PAD 4948 HPA-PUB 3(0,3) American Humanities Internship: PR: Enrollment in American Humanities 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 Humanities certification program. Requires minimum of 300 hours placement in nonprofit human services organization. May be repeated for credit. <i>Fall, Spring.</i>
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>	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>	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>
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>	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>	PAD 5060 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>
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>	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>	PAD 5145 HPA-PUB 3(3,0) Volunteerism in Nonprofit Management: PR: Admission to Master of Nonprofit Management degree, Nonprofit certificate or C.I. Volunteer development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues. <i>Fall, Spring.</i>
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>	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>	PAD 5146 HPA-PUB 3(3,0) Nonprofit Resource Development: PR: Admission to master of Nonprofit Management degree, Nonprofit Certificate or C.I. Examines human resource development and financial resource development in nonprofit organizations including management issues. <i>Fall, Spring.</i>
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>	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>	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>
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>	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>	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>
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>		

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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>	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>	PCB 3703H COM-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>
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>	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>	PCB 4026 COM-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>
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>	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	PCB 4174 COM-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>
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>	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>	PCB 4235 COM-M&M 3(3,0) Cancer Biology: PR: PCB 3522 or PCB 3023. Current knowledge and research on molecular mechanism of tumor development, tumor progression, metastasis and therapy of cancer. <i>Occasional.</i>
PAD 5807 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>	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>	PCB 4239 COM-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>
PAD 5850 HPA-PUB 3(3,0) Grant and Contract Management: PR: Admission to the Master of Nonprofit Management degree, Nonprofit certificate 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>	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	PCB 4251 COM-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>
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>	PCB 3233 COM-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>	PCB 4264 COM-M&M 3(3,0) Stem Cell Biology: PR: PCB 3522 or PCB 3023. Introduction to embryonic and adult stem cells, procedures to isolate them, principles and applications of stem cells in animal and human diseases. <i>Occasional.</i>
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>	PCB 3233L COM-M&M 1(0,3) Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology. <i>Fall, Spring.</i> M&S fee: \$45.00	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
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>	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	PCB 4303C COS-BIOL 4(3,4) 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
PAF 4754 HPA-PUB AFF 3(3,0) Interdisciplinary Leadership in Public Affairs: PR: Junior Standing and ENC 1101 or C.I. Global public affairs leadership in social and economic development, social justice, transnational and interdisciplinary partnerships, and social change. <i>Occasional.</i>	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>	PCB 4353 COS-BIOL 3(3,0) 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>
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>	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>	PCB 4514 COS-BIOL 3(3,0) 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>
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>	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>	PCB 4524 COM-M&M 3(3,0) Molecular Biology II: PR: PCB 3522. The processes regulating gene function in prokaryotes and eucaryotes: specialized genetic aspects underlying multi-cellular existence, DNA evolution. <i>Spring.</i>
	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>	PCB 4524H COM-M&M 3(3,0) Molecular Biology II-Honors: PR: Permission of Honors and PCB 3522. Same as PCB 4525 with honors level content. <i>Spring.</i>
	PCB 3522 COM-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 prokaryotic and eucaryotic genes. <i>Fall, Spring.</i>	
	PCB 3703C COM-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	

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PCB 4529 COM-M&M 3(3,0)
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. *Spring.*

PCB 4678 COS-BIOL 3(3,0)
Evolution and Medicine: PR: PCB 4683 or C.I. Evolutionary theory and perspectives to investigate problems in human health and disease. *Odd Fall.*

PCB 4683 COS-BIOL 4(4,0)
Evolutionary Biology: PR: A grade of "C" (2.0) or better in PCB 3044 and PCB 3063 or C.I. Demographic and genetic structure of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals. *Fall, Spring.*

PCB 4683L COS-BIOL 1(0,2)
Evolutionary Biology Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. *Fall, Spring.* M&S fee: \$10.00

PCB 4723 COS-BIOL 4(4,0)
Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology. *Fall.*

PCB 4805 COM-M&M 3(3,0)
Endocrinology: PR: PCB 3703C or equivalent; CHM 2211. Mechanisms of action of hormones; interrelationship between the nervous and endocrine systems. *Occasional.*

PCB 5025 COM-M&M 3(3,0)
Molecular and Cellular Pharmacology: PR: Graduate standing, PCB 3522. The cellular and molecular events that lead to disease states and the molecular basis of agents that modulate these processes will be covered. *Spring.*

PCB 5045 COS-BIOL 4(4,0)
Conservation Biology: PR: PCB 3044 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. *Fall.* M&S fee: \$15.00

PCB 5238 COM-M&M 3(3,0)
Immunobiology: PR: PCB 3233, PCB 4239. Advanced topics in immune system dysregulation with special emphasis on innate immunity. *Spring.*

PCB 5239 COM-M&M 3(3,0)
Cancer Biology: PR: PCB 4524 and graduate standing. Current knowledge and research on molecular mechanism of tumor development, tumor progression, metastasis and therapy of cancer. *Occasional.*

PCB 5265 COM-M&M 3(3,0)
Stem Cell Biology: PR: Graduate standing. Introduction to embryonic and adult stem cells, procedures to isolate them, principles and applications of stem cells in animal and human diseases. *Occasional.*

PCB 5275 COM-M&M 3(3,0)
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. *Occasional.*

PCB 5326C COS-BIOL 5(3,2)
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. *Occasional.* M&S fee: \$15.00

PCB 5435C COS-BIOL 4(2,6)
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. *Odd Spring.* M&S fee: \$45.00

PCB 5485 COS-BIOL 3(3,0)
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. *Occasional.* M&S fee: \$15.00

PCB 5665C COS-BIOL 4(3,2)
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. *Occasional.* M&S fee: \$15.00

PCB 5687 COS-BIOL 3(3,0)
Evolutionary Ecology: PR: PCB 4683 or equivalent and C.I. Evolution of life history traits (e.g., propagule size/number, age/size at maturity, survivorship and senescence) examined using a quantitative genetic framework. *Even Fall.*

PCB 5807 COS-BIOL 3(3,0)
Comparative Endocrinology: PR: PCB 3023 and PCB 3044 or equivalent and C.I. Hormonal regulation of animal behavior and physiological responses to the environment. *Even Fall.*

PCB 5935 COS-BIOL 3(3,0)
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. *Occasional.*

PCO 4203 COS-PSYCH 4(3,2)
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. *Fall, Spring.*

PEL 2011 ED-CFCS 2(1,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies. *Occasional.* M&S fee: \$10.00

PEL 2111 ED-CFCS 2(1,1)
Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals. *Fall, Spring.*

PEL 2112 ED-CFCS 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. *Occasional.*

PEL 2121 ED-CFCS 2(1,1)
Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. *Fall, Spring.* M&S fee: \$6.00

PEL 2122 ED-CFCS 2(1,1)
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. *Occasional.*

PEL 2341 ED-CFCS 2(1,1)
Beginning Tennis: Performance and application of basic skills, rules and etiquette. Physiological and social values accruing from this lifetime sport. *Occasional.* M&S fee: \$24.00

PEL 2342 ED-CFCS 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. *Occasional.*

PEL 2640 ED-CFCS 2(1,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies. *Occasional.* M&S fee: \$11.00

PEM 2101 ED-CFCS 2(1,1)
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. *Fall, Even Spring.*

PEM 2104 ED-CFCS 3(2,1)
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. *Fall, Spring.*

PEM 2121C ED-CFCS 3(1,3)
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. *Fall, Spring.*

PEM 2127C ED-CFCS 2(1,1)
Pilates: The Pilates method of body conditioning emphasizing core musculature as it applies to everyday movement. *Occasional.* M&S fee: \$12.00

PEM 2131 ED-CFCS 2(1,1)
Strength Resistance Training: Study of fitness and strength development through resistance exercise. *Fall, Spring.* M&S fee: \$10.00

PEM 2134C ED-CFCS 2(1,1)
Adventure Recreation: Options for adventure recreation including: outdoor living skills, canoeing, kayaking, rock climbing, hiking and backpacking. *Occasional.* M&S fee: \$3.00

PEM 2171 ED-CFCS 2(1,1)
Aerobics: Appropriate rhythmic muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate. *Fall, Spring.*

PEM 2173 ED-CFCS 2(1,1)
Step Aerobics: Appropriate rhythmic muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down. *Occasional.*

PEM 2175 ED-CFCS 2(1,1)
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. *Occasional.*

PEM 2176C ED-CFCS 2(1,1)
Cardio Kickboxing: Proper technique and fundamentals of cardio kickboxing. *Occasional.* M&S fee: \$6.00

PEM 2405 ED-CFCS 3(1,2)
Self Defense for Women and Men: Designed to provide students with self defense skills. *Fall, Spring.*

PEM 2443 ED-CFCS 2(1,2)
Tae Kwon Do: An analysis and application of the martial arts, as part of an overall physical and mental training system. *Occasional.*

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PEM 5408C	ED-CFCS	3(2,1)	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>	PET 3137	ED-CFCS	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>	PET 3768	ED-CFCS	3(3,0)	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>
PEN 1121	ED-CFCS	2(1,1)	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>	PET 3214	COS-PSYCH	3(3,0)	Sports Psychology: A review of principles of psychology related to the enhancement of satisfaction and performance in sports. <i>Occasional.</i>	PET 3771	ED-CFCS	3(3,0)	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>
PEO 2011	ED-CFCS	3(2,1)	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	PET 3344C	ED-CFCS	3(2,1)	Fundamentals of Athletic Coaching: PR: PEO 2011 or C.I. Basic knowledge of standards and practices for athletic coaches. <i>Occasional.</i>	PET 3820	ED-CFCS	3(2,1)	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>
PEO 2031	ED-CFCS	3(2,1)	Individual Sports: Skill proficiency and knowledge to plan, implement and evaluate individual sports. <i>Fall, Spring.</i> M&S fee: \$9.00	PET 3361	ED-CFCS	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>	PET 3940	ED-CFCS	3(3,0)	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>
PEO 2623C	ED-CFCS	2(1,1)	Officiating Basketball: Skills, knowledge, and practical experience required to become an official in the sport of basketball. <i>Occasional.</i>	PET 3510C	HPA-HP	3(2,1)	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>	PET 3941	ED-CFCS	6(0,16)	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>
PEO 2624	ED-CFCS	3(2,1)	Coaching Basketball: Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies. <i>Fall.</i>	PET 3620	HPA-HP	3(3,0)	Principles of Athletic Training: PR: ZOO 3733C or ZOO 3736C and PCB 3703C; Junior standing; open to all COHPA majors. Athletic training principles including injury recognition, emergency care, bloodborne pathogens, rehabilitation and prevention. <i>Fall.</i> M&S fee: \$15.00	PET 4002	ED-CFCS	3(1,2)	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>
PEO 3041	ED-CFCS	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>	PET 3623C	HPA-HP	3(2,2)	Recognition and Evaluation of Athletic Injuries I: PR: PET 3620. Recognition and evaluation skills required to perform an injury/illness assessment of the upper extremity, head and neck, and general medical conditions and provide immediate management. <i>Spring.</i>	PET 4050C	ED-CFCS	3(2,1)	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>
PEO 3324	ED-CFCS	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>	PET 3633C	HPA-HP	2(1,1)	Clinical Skills for Athletic Trainers I: PR: ZOO 3733C or ZOO 3736C; Junior standing; Open to non-majors. 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	PET 4083	ED-CFCS	3(3,0)	Practical Fitness Training: PR: Admission to Sports and Fitness major or Fitness, Coaching, or Recreation minor or C.I. An in-depth study into fitness-related concepts as they are applied to individuals and groups. <i>Even Spring.</i>
PEO 3644	ED-CFCS	3(2,1)	Coaching Football: Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies. <i>Occasional.</i>	PET 3649C	HPA-HP	2(1,1)	Clinical Skills for Athletic Training II: PR: PET 3633C and (ZOO 3733C or ZOO 3736C); Junior Standing; Open to all non-majors. Clinical skills, including functional knowledge of upper extremity muscular anatomy; taping and bracing skills; and pharmacological interventions for common general medical conditions and athletic injuries. <i>Spring.</i> M&S fee: \$15.00	PET 4088	ED-CFCS	3(3,0)	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 5645C	ED-CFCS	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>	PET 3670L	HPA-HP	4(0,16)	Practicum in Athletic Training I: PR: PET 3620. Clinical introduction to an athletic training site under direct supervision of a certified athletic trainer. <i>Fall, Spring.</i>	PET 4215	ED-CFCS	3(3,0)	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>
PEP 3205	ED-CFCS	3(2,1)	Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics. <i>Occasional.</i>	PET 3671L	HPA-HP	4(0,16)	Practicum in Athletic Training II: PR: PET 3670L. Continuation of clinical practicum under direct supervision of certified athletic trainer. <i>Fall, Spring.</i>	PET 4312	ED-CFCS	3(2,1)	Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement. <i>Fall.</i>
PET 2081	ED-CFCS	1(1,0)	Wellness, Children and Schools: Exploration and promotion of wellness for children in schools. <i>Fall, Spring.</i>	PET 3740C	ED-CFCS	2(1,1)	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>	PET 4315C	HPA-HP	3(2,2)	Biomechanics of Sport: PR: PHY 2053C or PHY 2048 & L. Assessment and recognition of physiological and mechanical aspects of sports and injuries. <i>Spring.</i>
PET 2622C	ED-CFCS	3(2,1)	Human Injuries: PR: C.I. The prevention, identification, care, and rehabilitation of human injuries. <i>Fall, Spring.</i>	PET 3765	ED-CFCS	3(3,0)	Coaching Theory: PR: Admitted to COE or CI. Theories of coaching team and individual sports. <i>Fall, Spring.</i>	PET 4351C	ED-CFCS	3(2,1)	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>
PET 3084	ED-CFCS	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>								
PET 3125	ED-CFCS	3(3,0)	Fitness and Weight Management: PR: Admission to Sports and Fitness Program or C.I. Provides current and future professionals with the requisite knowledge of fitness and weight management research, theories, and practice. <i>Spring.</i>								

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PET 4401	ED-CFCS	3(3,0)	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 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>	PET 5635	ED-CFCS	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>
PET 4550	ED-CFCS	3(2,1)	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 4710	ED-CFCS	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>	PET 5766	ED-CFCS	3(3,0)	Advanced Coaching Theory: PR: C.I. Advanced study of theories and methods of coaching for optimum sports performance. <i>Occasional.</i>
PET 4603C	HPA-HP	3(2,2)	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 4724	ED-CFCS	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>	PET 5931	ED-CFCS	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>
PET 4604	HPA-HP	3(3,0)	Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries. <i>Spring.</i>	PET 4763	ED-CFCS	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>	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
PET 4606	HPA-HP	3(3,0)	Applied Fitness in Sport: PR: ZOO 3733C or ZOO 3736C and PCB 3703C; Junior standing; Open to all COHPA majors. Appreciation and clinical application of fitness regarding athletics. <i>Spring.</i>	PET 4823C	ED-CFCS	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>	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>
PET 4624C	HPA-HP	3(2,2)	Recognition and Evaluation of Athletic Injuries II: PR: PET 3620. Recognition and evaluation skills required to perform an injury/illness assessment of the lower extremity and spine and provide immediate management. <i>Fall.</i>	PET 4925	ED-CFCS	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>	PGY 3205C	CAH-ART	3(2,4)	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
PET 4625	ED-CFCS	3(3,0)	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 4926	ED-CFCS	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>	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>
PET 4630C	HPA-HP	4(2,4)	Therapeutic Exercise in Athletic Training: PR: PET 3623C. Rehabilitation processes regarding exercise progression for athletic injury. <i>Occasional.</i>	PET 4943	ED-CFCS	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. Graded S/U. May be repeated for credit. <i>Occasional.</i>	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
PET 4632C	HPA-HP	4(2,4)	Therapeutic Modalities in Athletic Training: PR: PET 4624C. Principles and techniques for applying therapeutic modalities. <i>Occasional.</i>	PET 4945	ED-CFCS	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>	PGY 3451C	CAH-ART	3(2,4)	Alternative Processes: PR: PGY 4472C 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
PET 4636C	HPA-HP	3(1,2)	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>	PET 5216	ED-CFCS	3(3,0)	Motivational Aspects of Coaching: PR: Graduate standing or C.I. Assist students to understand and conceptually integrate mental and physical performance, mental rehearsal, motivation, effort, persistence, adherence and compliance, measurement and evaluation, and other related topics of interest. <i>Occasional.</i>	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>
PET 4640	ED-CFCS	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>	PET 5355	ED-CFCS	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>	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
PET 4660C	HPA-HP	3(3,0)	Organization and Administration of Athletic Training: PR: PET 3671L. Administrative knowledge in the athletic training profession. <i>Fall.</i>	PET 5495	ED-CFCS	3(3,0)	Critical Issues: Ethics in Coaching and Sport: PR: Graduate standing or C.I. Specializes in coaching and sport leadership in self-evaluating, examining, and developing philosophy, values, and moral reasoning skills. <i>Occasional.</i>	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
PET 4672L	HPA-HP	4(0,16)	Practicum in Athletic Training III: PR: PET 3671L. Advanced clinical internship with increased responsibilities under the supervision of a certified athletic trainer. <i>Fall, Spring.</i>					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
PET 4673L	HPA-HP	4(0,16)	Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a certified athletic trainer. <i>Fall, Spring.</i>								

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PGY 3651C	CAH-ART	3(2,4)	Narrative Editorial Photography: PR: PGY 2655 Editorial Photography or C.I. Explores photography in narrative, documentary, and editorial form. Research, story, text, and visual style will be addressed. <i>Fall</i> .	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> . M&S fee: \$45.00	PHI 2108	CAH-PHIL	3(3,0)	Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action. <i>Occasional</i> .
PGY 3653C	CAH-ART	3(2,4)	Advanced Explorations in Editorial Photography: PR: PGY 3651C. Exploration of imagery created to illustrate articles, including still-life, portrait, documentary, and/or fashion photography. Emphasis on the creation of multiple or consecutive images. <i>Spring</i> .	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> .	PHI 2630	CAH-PHIL	3(3,0)	Ethics: An examination of the nature of moral problems, judgements and principles, with an emphasis on recent formulations in ethical theory. <i>Occasional</i> .
PGY 3751C	CAH-ART	3(2,4)	Videography: PR: PGY 3821C or C.I. Creation of video narratives using the digital environment. <i>Occasional</i> .	PHH 3100	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> .	PHI 2647	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> .
PGY 3809C	CAH-ART	3(2,4)	Photography and Web Design: PR: PGY 3821C 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	PHH 3200	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> .	PHI 3022	CAH-PHIL	3(3,0)	Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2010, PHM 3123, or C.I. Examines the contributions of post-structuralist and neopsychoanalytical theories to cultural issues in sexuality and gender. <i>Even Spring</i> .
PGY 3821C	CAH-ART	3(2,4)	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	PHH 3460	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> .	PHI 3033	CAH-PHIL	3(3,0)	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> .
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> .	PHH 3510	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> .	PHI 3083	CAH-PHIL	3(3,0)	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> .
PGY 4228C	CAH-ART	3(2,4)	Advanced Illustrative Photography: PR: PGY 3205C 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	PHH 3600	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> .	PHI 3131	CAH-PHIL	3(3,0)	Formal Logic II: PR: PHI 2101. Systematic study of propositional and first-order predicate logic; logistic systems and axiomatic methods; problems of metatheory, including consistency, completeness, and decidability. <i>Occasional</i> .
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	PHH 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> .	PHI 3320	CAH-PHIL	3(3,0)	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> .
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	PHH 3701	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> .	PHI 3323	CAH-PHIL	3(3,0)	Minds and Machines: Philosophy of Cognitive Science: PR: PHI 2010 or C.I. Assumptions undergirding research in Cognitive Science. <i>Fall, Odd Spring</i> .
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> . M&S fee: \$45.00	PHI 2010	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> .	PHI 3451	CAH-PHIL	3(3,0)	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> .
PGY 4472C	CAH-ART	3(2,4)	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	PHI 2010H	CAH-PHIL	3(3,0)	Honors Introduction to Philosophy: PR: Permission of Honors. Same as PHI 2010 with honors-level content. <i>Fall</i> .	PHI 3601	CAH-PHIL	1(1,0)	Practical Wisdom: PR: Junior standing or PHI 2010 or C.I. 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> .
PGY 4493C	CAH-ART	3(2,4)	Photography and Art: PR: PGY 4472C, or PGY 3002, or C.I. Creation of photographs related to the expression of personal, political, aesthetic, and theoretical issues and ideas found in historical and contemporary imagery. <i>Occasional</i> .	PHI 2011	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> .	PHI 3625	CAH-PHIL	3(3,0)	Virtual Ethics: PR: COP 3502C or DIG 2000 or C.I. 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> .
				PHI 2101	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> .	PHI 3626	CAH-PHIL	3(3,0)	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> .
								PHI 3629	CAH-PHIL	3(3,0)	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> .

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PHI 3638 CAH-PHIL 3(3,0) 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>	PHI 3805 CAH-PHIL 3(3,0) 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 4931 CAH-PHIL 3(3,0) 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>
PHI 3640 CAH-PHIL 3(3,0) 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>	PHI 3941 CAH-PHIL 3(1,3) Philosophy Practicum: PR: C.I. Mentor at-risk grade schoolers and evaluate such work-related concepts as justice and fairness. <i>Occasional.</i>	PHI 4935 CAH-PHIL 3(3,0) 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>
PHI 3648 CAH-PHIL 3(3,0) 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>	PHI 4221 CAH-PHIL 3(3,0) 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 4938 CAH-PHIL 3(3,0) Senior Research Seminar: PR: Senior standing and Philosophy major. Capstone course on research, developing effective oral and written communication skills. <i>Occasional.</i>
PHI 3670 CAH-PHIL 3(3,0) 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>	PHI 4300 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>	PHI 4951 CAH-PHIL 1(1,0) 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>
PHI 3672 CAH-PHIL 3(3,0) 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>	PHI 4321 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>	PHI 5225 CAH-PHIL 3(3,0) 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>
PHI 3683 CAH-PHIL 3(3,0) 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>	PHI 4341 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>	PHI 5325 CAH-PHIL 3(3,0) 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>
PHI 3684 CAH-PHIL 3(3,0) 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>	PHI 4400 CAH-PHIL 3(3,0) Philosophy of Science: PR: Junior standing or PHI 2010 or C.I. An examination of the conceptual foundations and methodology of modern science. <i>Occasional.</i>	PHI 5327 CAH-PHIL 3(3,0) 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>
PHI 3700 CAH-PHIL 3(3,0) 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>	PHI 4420 CAH-PHIL 3(3,0) Philosophy of Social Science: PR: Junior standing or PHI 2010 or C.I. 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>	PHI 5328 CAH-PHIL 3(3,0) 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>
PHI 3720 CAH-PHIL 3(3,0) 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 4500 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>	PHI 5329 CAH-PHIL 3(3,0) 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>
PHI 3750 CAH-PHIL 3(3,0) 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 4633 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>	PHI 5340 CAH-PHIL 3(3,0) 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>
PHI 3790 CAH-PHIL 3(3,0) 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 4633H 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>	PHI 5627 CAH-PHIL 3(3,0) 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>
PHI 3800 CAH-PHIL 3(3,0) 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 4673 CAH-PHIL 3(3,0) Medical Ethics: PR: Senior standing or C.I. Ethics of clinical medicine and medical research. <i>Spring.</i>	PHI 5634 CAH-PHIL 3(3,0) Medical Ethics: PR: Graduate standing or C.I. Ethics for practitioners of clinical medicine, health care delivery and medical research. <i>Fall.</i>
PHI 3803 CAH-PHIL 3(3,0) Philosophy and Creativity: PR: Junior standing or PHI 2010 or C.I. 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 4690 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>	
PHI 4804 CAH-PHIL 3(3,0) 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>		

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PHI 5665	CAH-PHIL	3(3,0)	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>	PHT 3069L	HPA-HP	2(0,4)	Physical Assessment Lab: PR: PHT 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient. <i>Occasional.</i>	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>
PHI 5687	CAH-PHIL	3(3,0)	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>	PHT 3112	HPA-HP	2(2,0)	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>	PHT 4230	HPA-HP	2(2,0)	Therapeutic Exercise II: PR: PHT 4222; PHT 4222L. CR: PHT 4230L. Exploration of the various therapeutic exercise modalities, and their application to the rehabilitation course treatment. <i>Occasional.</i>
PHM 3020	CAH-PHIL	3(3,0)	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>	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>
PHM 3100	CAH-PHIL	3(3,0)	Freedom and Justice: PR: Junior standing or PHI 2010 or C.I. 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>	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>
PHM 3123	CAH-PHIL	3(3,0)	Feminist Theories: PR: ENC 1102. Contemporary issues and perspectives in feminist theory and their relation to divergent feminist practices. <i>Even Fall.</i>	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>
PHM 3401	CAH-PHIL	3(3,0)	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>	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>
PHM 4031	CAH-PHIL	3(3,0)	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>	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 Physical Therapy program. Introduction to the profession of physical therapy. <i>Occasional.</i>
PHM 5035	CAH-PHIL	3(3,0)	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>	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>
PHP 3781	CAH-PHIL	3(3,0)	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>	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 Physical Therapy 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>
PHP 3783	CAH-PHIL	3(3,0)	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>	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 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>
PHP 3786	CAH-PHIL	3(3,0)	Existentialism: PR: Junior standing or PHI 2010 or C.I. 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>	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 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
PHP 4782	CAH-PHIL	3(3,0)	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>	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 5156L	HPA-HP	2(0,4)	Physiology of Therapeutic Exercise Lab: CR: PHT 6156C. Lab course emphasizing the clinical application of exercise physiology. <i>Occasional.</i> M&S fee: \$15.00
PHT 3069	HPA-HP	1(1,0)	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>	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 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>
				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>				

UCF Courses and Descriptions

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. *Spring*. M&S fee: \$15.00

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. *Fall*.

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. *Fall*. M&S fee: \$25.00

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. *Spring*.

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. *Spring*. M&S fee: \$15.00

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. *Fall*.

PHT 5260L HPA-HP 1(0,2)
Patient Care Skills Lab: CR: Patient Care Skills. Skills of patient care, transfers, mobility skills. *Fall*. M&S fee: \$25.00

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. *Occasional*.

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. *Occasional*. M&S fee: \$15.00

PHY 2014C COS-PHYS 3(2,2)
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. *Occasional*.

PHY 2048 COS-PHYS 3(3,0)
Physics for Engineers & Scientists I: PR: MAC 2311 or equivalent. Mechanics, Thermodynamics, fluids. *Fall, Spring*.

PHY 2048H COS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists I: PR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048 with honors-level content. *Occasional*.

PHY 2048L COS-PHYS 1(0,3)
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. *Occasional*.

PHY 2048L COS-PHYS 1(0,3)
Physics Laboratory for Engineers and Scientists I: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2048. *Fall, Spring*. M&S fee: \$15.00

PHY 2049 COS-PHYS 3(3,0)
Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics. *Fall, Spring*.

PHY 2049H COS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists II: PR: Permission of Honors and PHY 2048H, MAC 2312. Same as PHY 2049 with honors-level content. *Occasional*.

PHY 2049L COS-PHYS 1(0,3)
Physics Laboratory for Engineers and Scientists II: CR: PHY 2049. Laboratory experiments covering selected topics in physics related to PHY 2049. *Fall, Spring*. M&S fee: \$15.00

PHY 2053C COS-PHYS 4(3,3)
College Physics I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. Mechanics, waves, thermodynamics. *Fall, Spring*. M&S fee: \$15.00

PHY 2053H COS-PHYS 4(3,3)
Honors College Physics I: PR: MAC 1105 and MAC 1114 or C.I. and consent of Honors. Mechanics, waves, thermodynamics. With Honors content. *Fall*.

PHY 2054C COS-PHYS 4(3,3)
College Physics II: PR: PHY 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity. *Fall, Spring*. M&S fee: \$15.00

PHY 2054H COS-PHYS 4(3,3)
Honors College Physics II: PR: PHY 2053H and consent of Honors. Fluids, electricity, and magnetism, optics, x-rays, radioactivity. With Honors content. *Spring*.

PHY 2090 COS-PHYS 0(0,1.5)
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. *Occasional*.

PHY 3101 COS-PHYS 3(3,0)
Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics. *Fall, Spring*.

PHY 3110H COS-PHYS 3(3,0)
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. *Occasional*.

PHY 3220 COS-PHYS 3(3,0)
Mechanics I: PR: PHY 2048 or PHY 2048H, MAP 2302. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton's equations. *Spring*.

PHY 3323 COS-PHYS 3(3,0)
Electricity and Magnetism I: PR: PHY 2049, MAP 2302. Electrostatics, magnetostatics, Lorentz force current electricity, Maxwell's equations. *Fall*.

PHY 3513 COS-PHYS 3(3,0)
Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics. *Fall*.

PHY 3722C COS-PHYS 3(1,5)
Physics Laboratory-Electronics: PR: PHY 2049, PHY 2049L. State-of-the-art electronics, transducers, operational amplifiers, phase sensitive circuits, active filters. *Occasional*. M&S fee: \$15.00

PHY 3752C COS-PHYS 3(1,5)
Physics of Scientific Instruments: PR: PHY 3101 or C.I. Applications, functions and operation of electronic instruments. *Occasional*. M&S fee: \$12.00

PHY 3802L COS-PHYS 3(1,5)
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. *Fall*.

PHY 3920 COS-PHYS 1(1,0)
Frontiers in Physics Research: Colloquia and Public Talks: PR: PHY 3101 or C.I. Presentations of current research and major advances in physics. Graded S/U. May be used in the degree program a maximum of 3 times. *Fall, Spring*.

PHY 4324 COS-PHYS 3(3,0)
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. *Spring*.

PHY 4424 COS-PHYS 3(3,0)
Optics: PR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography. *Occasional*.

PHY 4424L COS-PHYS 3(0,3)
Optical Physics Laboratory: A laboratory course on geometric optics, interference, diffraction, materials and modern optics. *Occasional*.

PHY 4445 COS-PHYS 3(3,0)
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. *Occasional*.

PHY 4604 COS-PHYS 3(3,0)
Wave Mechanics I: PR: PHY 3113. Postulates of Quantum Mechanics. Operators and Observables, Schrodinger equation with simple applications. *Fall*.

PHY 4605 COS-PHYS 3(3,0)
Wave Mechanics II: PR: PHY 4604. Further applications of quantum mechanics, perturbation theory, scattering theory, identical particles. *Spring*.

PHY 4803L COS-PHYS 3(1,5)
Advanced Physics Laboratory: PR: PHY 3802L. Experiments in optics, electronics, nuclear and solid state physics. Emphasis on design, data, and scientific writing. *Occasional*. M&S fee: \$15.00

PHY 4942C COS-PHYS 3(2,3)
Practicum in Physics: PR: C.I. Physics laboratories and demonstrations, and the study of recent research on the learning of physics. *Occasional*.

PHY 5015C COS-PHYS 3(2,2)
Physics for Teachers II: PR: Graduate status or senior standing or C.I. "Hands-on" lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation. *Occasional*.

PHY 5100 COS-PHYS 1(1,0)
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. *Occasional*.

PHY 5140C COS-PHYS 3(3,2)
Ion-Solid Interactions: PR: PHY 4604 or PHY 4324, graduate status or senior standing, or C.I. Physical principles and related scientific and technological applications of ion-solid interactions. *Even Spring*.

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PHY 5200C COS-PHYS 1(0.5,1.5)
Newtonian Mechanics for Teachers: PR: Graduate status or senior standing or C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics. *Occasional.*

PHY 5300C COS-PHYS 1(0.5,1.5)
Electricity for Teachers: PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements. *Occasional.*

PHY 5302C COS-PHYS 1(0.5,1.5)
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. *Occasional.*

PHY 5346 COS-PHYS 3(3,0)
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. *Fall.*

PHY 5401C COS-PHYS 1(0.5,1.5)
Optics for Teachers: PR: Graduate status or senior standing or C.I. Geometrical and physical optics, spectrometers and lasers. *Occasional.*

PHY 5455 COS-PHYS 3(3,0)
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. *Occasional.*

PHY 5466C COS-PHYS 1(0.5,1.5)
Wave Motion for Teachers: PR: Graduate status or senior standing or C.I. Water waves, waves on strings, sound and vibrations. *Occasional.*

PHY 5500C COS-PHYS 1(0.5,1.5)
Thermal Physics for Teachers: PR: Graduate status or senior standing or C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather. *Occasional.*

PHY 5524 COS-PHYS 3(3,0)
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. *Spring.*

PHY 5606 COS-PHYS 3(3,0)
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. *Fall.*

PHY 5650 COS-PHYS 3(3,0)
Introduction to Quantum Computation: PR: C.I. Theoretical fundamentals and physical implementations of quantum computation for science and engineering students. *Occasional.*

PHY 5817L COS-PHYS 1(0,3)
Building Physics Apparatus: PR: Graduate standing or senior standing and C.I. Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work. *Occasional.* M&S fee: \$45.00

PHY 5846C COS-PHYS 3(3,3)
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. *Fall.*

PHY 5933 COS-PHYS 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. *Occasional.*

PHZ 3113 COS-PHYS 3(3,0)
Introduction to Theoretical Methods of Physics: PR: MAP 2302. Analytical techniques to solve problems of physics. *Spring.*

PHZ 3151 COS-PHYS 3(3,0)
Computer Methods in Physics: PR: PHY 3101. Non-analytical problems in physics and astronomy solved by approximation with computer assistance. *Occasional.*

PHZ 3422 COS-PHYS 3(3,0)
Nanophysics: PR: PHY 3101 or C.I. Physical phenomena occurring in nanometer-length scale, including nano colloids, and nano transport. *Occasional.*

PHZ 3601 COS-PHYS 3(3,0)
Einstein's Theory of Relativity: PR: PHY 2049. Einstein's special theory of relativity. Introduction to general relativity. *Occasional.*

PHZ 4390 COS-PHYS 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. *Occasional.*

PHZ 4404 COS-PHYS 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. *Occasional.*

PHZ 4434 COS-PHYS 3(3,0)
Nanoscale Surface Physics: PR: PHY 3101 or C.I. Physical and chemical properties of nanoscale surfaces. *Even Fall.*

PHZ 5156 COS-PHYS 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. *Fall.*

PHZ 5304 COS-PHYS 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. *Occasional.*

PHZ 5405 COS-PHYS 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. *Occasional.*

PHZ 5425C COS-PHYS 3(3,3)
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. *Occasional.*

PHZ 5432 COS-PHYS 3(3,0)
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. *Occasional.*

PHZ 5437 COS-PHYS 3(3,0)
Nanoscale Surface Physics: PR: Undergraduate Quantum Mechanics at the level of PHY 4604 or C.I. Overview of physical and chemical properties of nanoscale surfaces. *Occasional.*

PHZ 5505 COS-PHYS 3(3,0)
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. *Occasional.*

PHZ 5600 COS-PHYS 1(1,0)
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. *Occasional.*

PLA 3013 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 3104 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 3155 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 3201 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 3201H HPA-CJ/LS 3(3,0)
Civil practice and Procedure - Honors: PR: Permission of Honors and PLA 3013 or C.I. Same as PLA 3201 with honors level content. *Occasional.*

PLA 3273 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 3304 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 3308 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 3610 HPA-CJ/LS 3(3,0)
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. *Fall, Spring.*

PLA 4020 HPA-CJ/LS 3(3,0)
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. *Occasional.*

PLA 4223 HPA-CJ/LS 3(3,0)
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. *Occasional.*

PLA 4240 HPA-CJ/LS 3(3,0)
Negotiation Alternatives in Law: PR: PLA 3013/C.I. Theories and skills involved in negotiation, mediation and other dispute resolutions processes. *Occasional.*

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<p>PLA 4263 HPA-CJ/LS 3(3,0) 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></p>	<p>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. <i>Occasional.</i></p>	<p>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. <i>Occasional.</i></p>
<p>PLA 4423 HPA-CJ/LS 3(3,0) 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></p>	<p>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. <i>Occasional.</i></p>	<p>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. <i>Occasional.</i></p>
<p>PLA 4433 HPA-CJ/LS 3(3,0) 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></p>	<p>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. <i>Occasional.</i></p>	<p>POR 1120C CAH-LANG 4(3,1) 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. <i>Fall.</i></p>
<p>PLA 4460 HPA-CJ/LS 3(3,0) 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></p>	<p>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. <i>Fall, Spring.</i></p>	<p>POR 1121C CAH-LANG 4(3,1) Elementary Portuguese Language and Civilization II: PR: POR 1120C or C.I. Continuation of POR 1120C. The course emphasizes the four major language skills: reading, writing, listening, and speaking. <i>Spring.</i></p>
<p>PLA 4472 HPA-CJ/LS 3(3,0) 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></p>	<p>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. <i>Occasional.</i></p>	<p>POR 2200 CAH-LANG 3(3,0) Intermediate Portuguese I: PR: POR 1120C or equivalent or C.I. Development of Portuguese language skills at the intermediate level. <i>Fall, Spring.</i></p>
<p>PLA 4483 HPA-CJ/LS 3(3,0) 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></p>	<p>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. <i>Occasional.</i></p>	<p>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. <i>Fall, Spring.</i></p>
<p>PLA 4530 HPA-CJ/LS 3(3,0) 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></p>	<p>PLA 4824 HPA-CJ/LS 3(3,0) Legal Issues for Athletic Trainers: PR: C.I. Analysis of the legal issues affecting athletic trainers. <i>Occasional.</i></p>	<p>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. <i>Occasional.</i></p>
<p>PLA 4554 HPA-CJ/LS 3(3,0) Environmental Law: PR: PLA 3013 and PLA 4483 or C.I. Environmental law and policy related to the protection of natural resources, including an examination of toxic pollutants, endangered species, and climate change. <i>Odd Fall, Odd Spring.</i></p>	<p>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. <i>Occasional.</i></p>	<p>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. <i>Fall, Spring.</i></p>
<p>PLA 4583 HPA-CJ/LS 3(3,0) Cyber Law I: PR: PLA 3013. Analysis of copyright, trademark, and patent issues in cyberspace. <i>Occasional.</i></p>	<p>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. <i>Occasional.</i></p>	<p>POS 2041H COS-POLS 3(3,0) Honors American National Government: PR: Permission of Honors. Same as POS 2041 with honors-level content. <i>Occasional.</i></p>
<p>PLA 4583H HPA-CJ/LS 3(3,0) 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></p>	<p>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. <i>Occasional.</i></p>	<p>POS 3076 COS-POLS 3(3,0) American Indian Politics: PR: POS 2041 or C.I. Politics and policies specific to indigenous peoples of the United States. <i>Occasional.</i></p>
<p>PLA 4601 HPA-CJ/LS 3(3,0) 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></p>	<p>PLA 4864 HPA-CJ/LS 3(3,0) Admiralty and Maritime Law: PR: PLA 3013. Admiralty jurisdiction and procedure including contracts for carriage of goods, seaman's contracts and claims, collision and salvage law, and wrongful death. <i>Occasional.</i></p>	<p>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. <i>Occasional.</i></p>
<p>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></p>	<p>PLA 4910 HPA-CJ/LS 3(3,0) Trial Advocacy: PR: PLA 3013, PLA 4263 or C.I. Analysis of the entire litigation process from the initial client interview through the appellate stage, and development of oral advocacy skills. <i>Fall, Spring.</i></p>	<p>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. <i>Occasional.</i></p>
<p>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. <i>Fall, Spring.</i></p>	<p>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. <i>Fall, Spring.</i></p>	<p>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. <i>Occasional.</i></p>
		<p>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. <i>Occasional.</i></p>

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<p>POS 3182H COS-POLS 3(3,0) Honors Florida Politics: PR: POS 2041 or C.I., and consent of Honors. Foundations of Florida government and political behavior, political institutions, and public policy. With Honors content. <i>Occasional.</i></p>	<p>POS 3949 COS-POLS 0(0,8) Cooperative Education in Political Science: PR: Departmental permission required before registering. Cooperative education experience in political science. Graded S/U. May be repeated. <i>Occasional.</i></p>	<p>POT 3204 COS-POLS 3(3,0) 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></p>
<p>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. <i>Fall.</i></p>	<p>POS 4074 COS-POLS 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></p>	<p>POT 3302 COS-POLS 3(3,0) Modern Political Ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism. <i>Occasional.</i></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4142 COS-POLS 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></p>	<p>POT 4003 COS-POLS 3(3,0) 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></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4204 COS-POLS 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></p>	<p>POT 4025 COS-POLS 3(3,0) 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></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4206 COS-POLS 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></p>	<p>POT 4054 COS-POLS 3(3,0) 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></p>
<p>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. <i>Even Fall.</i></p>	<p>POS 4246 COS-POLS 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></p>	<p>POT 4066 COS-POLS 3(3,0) 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></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4284 COS-POLS 3(3,0) 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></p>	<p>POT 4109 COS-POLS 3(3,0) Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature. <i>Occasional.</i></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4412 COS-POLS 3(3,0) Presidential Campaigning: PR: C.I. Introduces the process of candidate selection, convention behavior, actual campaign process and the transition of power. <i>Occasional.</i></p>	<p>POT 4305 COS-POLS 3(3,0) 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></p>
<p>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. <i>Fall.</i></p>	<p>POS 4603 COS-POLS 3(3,0) 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></p>	<p>POT 4314 COS-POLS 3(3,0) 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></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4604 COS-POLS 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></p>	<p>POT 4331 COS-POLS 3(3,0) 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></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4622 COS-POLS 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></p>	<p>POT 4345 COS-POLS 3(3,0) 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></p>
<p>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. <i>Occasional.</i></p>	<p>POS 4742 COS-POLS 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></p>	<p>POT 4414 COS-POLS 3(3,0) 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></p>
<p>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. <i>Fall, Spring.</i></p>	<p>POS 4941L COS-POLS 3-9(0,3-9) 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></p>	<p>POT 4632 COS-POLS 3(3,0) 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></p>

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PPE 3003 COS-PSYCH 3(3,0) Personality Theory: PR: PSY 2012. A survey of theory and research on the development of personality characteristics. <i>Fall, Spring.</i>	PSC 1121L COS-PHYS 1(0,2) 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 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>
PPE 3003H COS-PSYCH 3(3,0) 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>	PSC 1801 COS-PHYS 3(3,0) Physics in Films: PR: High school algebra. Physics using film as a vehicle of education. Not open to students with credit in PSC 1121. <i>Occasional.</i>	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>
PPE 5055 COS-PSYCH 3(3,0) 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>	PSY 2012 COS-PSYCH 3(3,0) Introduction to Psychological Science: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. <i>Fall, Spring.</i>	PSY 3703 COS-PSYCH 3(3,0) Psychology of Language: PR: PSY 2012 or C.I. Psychological principles involved in the communicative process, with application to individuals and groups. <i>Occasional.</i>
PSB 3002 COS-PSYCH 3(3,0) Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. <i>Fall, Spring.</i>	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>	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. Graded S/U. May be repeated for credit. <i>Fall, Spring.</i>
PSB 3002H COS-PSYCH 3(3,0) Honors Physiological Psychology: PR: PSY 2012H and consent of Honors. Physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. With Honors content. <i>Occasional.</i>	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>	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>
PSB 3441 COS-PSYCH 3(3,0) 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>	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>	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
PSB 3842 COS-PSYCH 3(3,0) 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>	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>	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
PSB 4103C COS-PSYCH 3(2,2) 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>	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>	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>
PSB 4240C COS-PSYCH 4(3,2) Neuropsychology: PR: PSB 3002. Study of brain function, with particular emphasis on human behavior. Lecture/Lab. <i>Fall, Odd Spring.</i>	PSY 3204H COS-PSYCH 4(3,1) Honors Statistical Methods in Psychology: PR: STA 2014C or STA 2023 and consent of Honors. Standard scores, confidence intervals, sampling distributions, hypothesis testing, correlation and regression as applied to research in psychology. With Honors content. <i>Occasional.</i>	PSY 4604 COS-PSYCH 3(3,0) History and Systems of Psychology: PR: PSY 2012 and Junior standing. Historical development of psychology, with emphasis on classical theoretical positions. <i>Occasional.</i>
PSB 4422 COS-PSYCH 3(2,2) 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>	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	PSY 4604H COS-PSYCH 3(3,0) Honors History and Systems in Psychology: PR: PSY 2012 and Junior standing and consent of Honors. Historical development of psychology, with emphasis on classical theoretical positions. With Honors content. <i>Occasional.</i>
PSB 5005 COS-PSYCH 3(3,0) 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>	PSY 3213H COS-PSYCH 5(3,2) Honors Research Methods in Psychology: PR: PSY 2012, PSY 3204 and STA 2014C or STA 2023 and consent of Honors. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. With Honors content. <i>Occasional.</i>	PSY 5605 COS-PSYCH 3(3,0) History and Systems of Psychology: PR: Acceptance to Clinical Psychology PhD 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 PhD in Clinical Psychology; in certain instances graduate students in other programs may enroll. <i>Odd Fall.</i>
PSC 1121 COS-PHYS 3(3,0) 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	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>	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>
PSC 1121H COS-PHYS 3(3,0) Honors Physical Science: PR: Permission of Honors and MAC 1105 or MGF 1106. PSC 1121 with Honors-level content. <i>Occasional.</i>	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>	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>

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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>	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>	RAT 4814L HPA-HP 6(0,24) 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>
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>	PUR 4000 COS-COMM 3(3,0) Public Relations: PR: SPC 1608. Principles and practice of Public Relations including techniques, research tools publicity, and management. <i>Fall, Spring.</i>	RAT 4824L HPA-HP 6(0,24) 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>
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>	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>	RED 3012 ED-TLP 3(3,0) 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>
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>	PUR 4203 COS-COMM 3(3,0) PR/Advertising Ethics and Law: PR: AD/PR majors only and ADV 3008. Legal precedents applicable to advertising and public relations as well as ethical considerations for both. <i>Occasional.</i>	RED 3310 ED-CFCS 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>
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>	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>	RED 4043 ED-TLP 3(3,0) Content Reading in Kindergarten through Grade 12: PR: Junior or senior standing. Admission to the teacher education program. Content literacy in the K-12 school curriculum: Principles, strategies, assessment, and promising practices. <i>Fall, Spring.</i>
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>	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>	RED 4311 ED-CFCS 3(3,0) 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>
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>	RAT 3241 HPA-HP 3(3,0) Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy. <i>Occasional.</i>	RED 4519 ED-TLP 3(3,1) Diagnostic and Corrective Reading Strategies: PR: RED 3012. 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>
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>	RAT 3242 HPA-HP 2(2,0) Oncologic Pathology: PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characteristics, histologic grading, staging and treatment. <i>Occasional.</i>	RED 4942 ED-TLP 3(3,0) Practicum for Assessment and Instruction of Reading: PR: RED 4519. Corequisite: Internship I. Practicum that provides opportunity to apply knowledge of reading assessment and instruction in order to increase reading proficiency of struggling readers. Concurrent school experience required. <i>Fall, Spring.</i>
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>	RAT 3614 HPA-HP 2(2,0) Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection. <i>Occasional.</i>	RED 5147 ED-TLP 3(3,0) 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>
PUP 4510 COS-POLS 3(3,0) Space Policy: An examination of the politics and policymaking involved with the US space program in the context of domestic demands and other international space programs. <i>Even Fall.</i>	RAT 4247 HPA-HP 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>	RED 5517 ED-TLP 3(3,1) 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>
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>	RAT 4248 HPA-HP 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>	REE 3043 BA-FIN 3(3,0) 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>
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>	RAT 4618C HPA-HP 4(3,3) 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>	REE 3433 BA-FIN 3(3,0) Real Estate Law: PR: Junior standing. An analysis of real estate law with emphasis on Florida statutes and case law. <i>Fall, Spring.</i>
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>	RAT 4619C HPA-HP 4(3,3) 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>	
	RAT 4804L HPA-HP 5(0,20) Clinical Education I: PR: RTE 3000, RTE 3111C, RTE 3528, RTE 3614, RTE 3804L, 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>	

UCF Courses and Descriptions

REE 3614 BA-FIN 3(3,0)
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. *Occasional.*

REE 4103 BA-FIN 3(3,0)
Real Estate Appraisal and Valuation: PR: FIN 3403C. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis. *Occasional.*

REE 4203 BA-FIN 3(3,0)
Commercial Real Estate Finance: PR: FIN 3403C; 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. *Occasional.*

REE 4204 BA-FIN 3(3,0)
Residential Real Estate Finance: PR: FIN 3403C; 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. *Fall, Spring.*

REE 4303 BA-FIN 3(3,0)
Real Estate Investment Analysis: PR: FIN 3403C. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis. *Fall, Spring.*

REE 4732 BA-FIN 3(3,0)
Real Estate Development: PR: FIN 3403C. 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. *Fall.*

REE 4933 BA-FIN 3(3,0)
Advanced Topics in Real Estate: PR: REE 3043 and REE 3433, or department approval. Advanced topics in real estate development, investment analysis, and market analysis. Cases cover the entire planning process for a real estate development or redevelopment project. *Occasional.*

REL 2300 CAH-PHIL 3(3,0)
World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. *Fall, Spring.*

REL 2300H CAH-PHIL 3(3,0)
Honors World Religions: PR: Permission of Honors. Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. Honors-level content. *Occasional.*

REL 3111 CAH-PHIL 3(3,0)
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. *Occasional.*

REL 3115 CAH-PHIL 3(3,0)
Religion, Spirituality, and Popular Music: PR: HUM 2230 or REL 2300. Contemporary spiritual sensibilities encountered at the intersection of religion, philosophy, and popular music. *Odd Fall.*

REL 3131 CAH-PHIL 3(3,0)
Religion in America: PR: REL 2300. Religious traditions in America, their relationship to politics, popular culture, media, and society. *Even Spring.*

REL 3340 CAH-PHIL 3(3,0)
Buddhist Thought: PR: HUM 2230 or REL 2300 or C.I. Teachings of Buddhism and their contemporary applications. *Odd Fall, Spring.*

REL 3432 CAH-PHIL 3(3,0)
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. *Even Fall, Odd Spring.*

REL 4110 CAH-PHIL 3(3,0)
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. *Occasional.*

REL 4180 CAH-PHIL 3(3,0)
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. *Occasional.*

REL 4901 CAH-PHIL 1(1,0)
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. *Occasional.*

REL 4910 CAH-PHIL 3(3,0)
Senior Research Seminar: PR: Senior standing and Religion Studies track major. Capstone course on research, developing effective oral and written communication skills. *Occasional.*

RET 3026C HPA-HP 4(3,3)
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. *Fall.* M&S fee: \$45.00

RET 3174 HPA-HP 3(3,0)
Pediatric Respiratory Care: PR: RET 3026C. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS. *Spring.*

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. *Occasional.*

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. *Spring.*

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. *Fall.* M&S fee: \$18.00

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. *Occasional.*

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. *Fall.*

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. *Fall.*

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. *Spring.*

RET 4284 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics I: PR: RET 4244. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing. *Fall.*

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. *Spring.*

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. *Occasional.* M&S fee: \$14.00

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. *Occasional.*

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. *Occasional.*

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. *Spring.*

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. *Spring.*

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. *Fall.*

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. *Spring.*

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. *Spring.*

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. *Occasional.*

UCF Courses and Descriptions

RMI 3011 BA-FIN 3(3,0) Principles of Risk and Insurance: PR: FIN 3403C. Emphasis is on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention. <i>Spring.</i>	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>	RTE 4844L HPA-HP 2(0,8) Clinical Education V-A: PR: RTE 4834L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranium, facial bones, sinuses and special procedures. <i>Spring.</i>
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>	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>	RTE 4846L HPA-HP 4(0,16) Clinical Education V-B: PR: RTE 4834L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranium, facial bones, sinuses and special procedures. <i>Spring.</i>
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	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>	RTE 4854L HPA-HP 4(0,16) Advanced Clinical Practicum: PR: RTE 4834L or RTE 4846L or Admission to AS to BS Transfer Program. Supervised clinical practice in computed tomography, interventional radiology, cardiac catheterization, magnetic resonance, mammography, trauma or pediatrics. <i>Fall, Spring.</i>
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>	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>	RTE 4903 HPA-HP 2(0,8) 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>
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>	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>	RTV 2102 COS-R/TV 3(3,0) 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>
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	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>	RTV 3007 COS-R/TV 3(3,0) Development and Structure of Electronic Media and New Technology: PR: SPC 1608 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>
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	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>	RTV 3101 COS-R/TV 3(1,2) 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>
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	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>	RTV 3200 COS-R/TV 3(3,0) 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>
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	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>	RTV 3210C COS-R/TV 3(2,1) 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
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>	RTE 4762 HPA-HP 3(3,0) Anatomy for the Medical Imager: PR: ZOO 3733C and PCB 3703C. A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference. <i>Fall, Spring.</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
RTE 3804L HPA-HP 2(0,8) Clinical Education I: PR: Admission to Radiologic Sciences Major. Supervised clinical practice in radiologic procedures, radiation protection, patient care and equipment with emphasis on chest and abdomen procedures and patient care activities. <i>Fall.</i>	RTE 4782 HPA-HP 2(2,0) Pathophysiology: PR: C.I. The study of radiologic science in the diagnosis and treatment of disease. <i>Spring.</i>	RTV 3228C COS-R/TV 4(3,1) 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
RTE 3814L HPA-HP 4(0,16) Clinical Education II: PR: RTE 3804L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the GI tract, urinary tract, extremities and shoulder girdle. <i>Spring.</i>	RTE 4824L HPA-HP 5(0,20) Clinical Education III: PR: RTE 3814L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on the pelvis, bony thorax, vertebral column and mobile radiography. <i>Occasional.</i>	
	RTE 4834L HPA-HP 6(0,24) Clinical Education IV: PR: RTE 4824L. Supervised clinical practice in radiographic/fluoroscopic procedures, mobile radiography and rotations through specialized imaging. <i>Fall.</i>	

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RTV 3234C COS-R/TV 3(2,1)
Broadcast Announcing and Performance: PR: RTV Major, Junior standing, and C.I. Development of performance skills and techniques required to be a performer in any area of broadcast television and performing industry, with emphasis on announcing, interviewing, reporting, auditioning, performance in scenes and commercials. Expect extensive studio work in the RTV facility outside the class. *Occasional*. M&S fee: \$15.00

RTV 3260C COS-R/TV 4(3,1)
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. *Fall, Spring*. M&S fee: \$30.00

RTV 3263C COS-R/TV 3(2,1)
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. *Fall, Spring*. M&S fee: \$15.00

RTV 3283C COS-R/TV 3(2,1)
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. *Odd Fall*. M&S fee: \$15.00

RTV 3301 COS-R/TV 3(3,0)
Electronic Journalism I: PR: RTV 2102 and RTV Major - Broadcast Journalism Specialization. News writing and newsgathering skills and strategies and their accompanying ethical considerations for analog and digital delivery of broadcast journalism. *Fall, Spring*.

RTV 3304 COS-R/TV 3(3,0)
Electronic Journalism II: PR: RTV 3301, RTV 3260C, and RTV Major - Broadcast Journalism Specialization. News writing 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. *Fall, Spring*.

RTV 3942L COS-R/TV 1-3(0,3-9)
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. Graded S/U. May be repeated for credit. *Occasional*.

RTV 4206C COS-R/TV 3(2,1)
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. *Fall, Even Spring*. M&S fee: \$30.00

RTV 4211C COS-R/TV 3(2,1)
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. *Occasional*. M&S fee: \$15.00

RTV 4271C COS-R/TV 3(2,1)
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. *Fall*.

RTV 4280C COS-R/TV 3(2,1)
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. *Occasional*. M&S fee: \$15.00

RTV 4281C COS-R/TV 3(2,1)
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. *Occasional*. M&S fee: \$15.00

RTV 4320C COS-R/TV 4(1,3)
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. *Fall, Spring*. M&S fee: \$15.00

RTV 4322C COS-R/TV 3(2,1)
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. *Occasional*.

RTV 4403 COS-R/TV 3(3,0)
Electronic Media, Technology, and Society: PR: or CR: RTV 3007. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media. *Fall, Spring*.

RTV 4503 COS-R/TV 3(3,0)
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. *Occasional*.

RTV 4505 COS-R/TV 3(2,1)
Program Issues for TV & Motion Pictures: PR: RTV 3007 or FIL 2030 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. *Occasional*.

RTV 4700 COS-R/TV 3(3,0)
Regulation of Broadcasting: PR: RTV Majors only, RTV 3007. Federal, state, local and self-regulatory agencies and practices which govern electronic media. *Fall*.

RTV 4800 COS-R/TV 3(3,0)
Broadcast Management: PR: RTV Majors only, RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels. *Odd Spring*.

RUS 1120 CAH-LANG 4(4,1)
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. *Occasional*.

RUS 1121 CAH-LANG 4(4,1)
Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120. *Occasional*.

RUS 2200 CAH-LANG 3(3,1)
Intermediate Russian Language and Civilization I: PR: RUS 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. *Occasional*.

RUS 2201 CAH-LANG 3(3,1)
Intermediate Russian Language and Civilization II: PR: RUS 2200 or equivalent. Continuation of RUS 2200, with emphasis on Russian civilization. *Occasional*.

RUS 2210 CAH-LANG 3(3,0)
Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking. *Occasional*.

RUS 3240 CAH-LANG 3(3,0)
Russian Conversation: PR: RUS 2201 or equivalent. Development of skills in conversation and comprehension through practice. *Occasional*.

RUS 3760 CAH-LANG 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. *Occasional*.

SCC 3311 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. *Occasional*.

SCC 3314 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. *Occasional*.

SCC 3316 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. *Occasional*.

SCE 3310 ED-TLP 3(3,0)
Teaching Science in Elementary School: PR: EDG 4410 or C.I. Selected concepts: organizing for instruction; techniques; evaluation procedures. *Fall, Spring*. M&S fee: \$5.25

SCE 4304 ED-CFCS 3(3,0)
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. *Fall*.

SCE 4360 ED-TLP 4(3,2)
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. *Fall, Spring*. M&S fee: \$8.00

SCE 4361 ED-TLP 3(3,0)
Programs in Teaching Science: PR: Admission to the Bachelor of Science in Science Education program or C.I. Special programs, strategies, and materials for middle and secondary school science education majors. *Spring*.

SCE 5315 ED-TLP 3(3,0)
Methods in Elementary School Science: PR: EDG 4323. Organization of instruction in elementary school science including methods, evaluation, materials, strategies, and current practices. *Spring*.

SCE 5325 ED-TLP 3(3,0)
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. *Occasional*.

SCE 5337 ED-TLP 3(3,0)
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. *Fall, Spring*.

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SCE 5836 ED-TLP 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>	SOW 3104 HPA-SOWK 3(3,0) 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>	SOW 4510 HPA-SOWK 9(0,28) 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>
SLS 1501 ED-ES 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>	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>	SOW 4522 HPA-SOWK 3(2,1) 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>
SLS 2261C ED-ES 2(2,1) Student Organization Leadership: Application of leadership and organizational development paradigms, theories, and approaches for emerging and established student leaders. <i>Occasional.</i>	SOW 3203 HPA-SOWK 3(3,0) 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>	SOW 4602 HPA-SOWK 3(3,0) 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 2311C COM-M&M 2(2,1) 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>	SOW 3300 HPA-SOWK 3(2,1) 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>	SOW 4645 HPA-SOWK 3(3,0) 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>
SLS 2715 ED-ES 2(2,0) 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>	SOW 3352 HPA-SOWK 3(1,2) 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>	SOW 4650 HPA-SOWK 3(3,0) 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>
SOP 2772 COS-PSYCH 3(3,0) Sexual Behavior: PR: PSY 2012. Physiological, social, and clinical aspects of human sexuality. <i>Fall.</i>	SOW 3401 HPA-SOWK 3(3,0) 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>	SOW 4654 HPA-SOWK 3(3,0) 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>
SOP 3004 COS-PSYCH 3(3,0) Social Psychology: PR: PSY 2012. Effects of social situations and social variables on the behavior of individuals. <i>Fall, Spring.</i>	SOW 3620 HPA-SOWK 3(3,0) 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>	SOW 4673 HPA-SOWK 3(3,0) 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>
SOP 3723 COS-PSYCH 3(3,0) 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>	SOW 3740 HPA-SOWK 3(3,0) Social Work Practice with Loss & Life's Transitions: PR: General Education completed and SOW 3104. A wide range of losses across the life span will be presented from a strengths perspective. Assessment & intervention recognizing cultural differences will be addressed. <i>Fall.</i>	SOW 4705 HPA-SOWK 3(3,0) 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>
SOP 3724 COS-PSYCH 3(3,0) Psychology of Prejudice: PR: PSY 2012. Examination of literature relating to prejudice toward groups and individuals, development and maintenance of prejudice, and possible ways to reduce prejudice. <i>Even Spring.</i>	SOW 4232 HPA-SOWK 3(3,0) 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>	SOW 4706 HPA-SOWK 3(3,0) Intervention with Substance Abusers: PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances. <i>Fall, Even Spring.</i>
SOP 3742 COS-PSYCH 3(3,0) 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>	SOW 4341 HPA-SOWK 3(1,2) 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>	SOW 4730 HPA-SOWK 3(3,0) 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>
SOP 3751 COS-PSYCH 3(3,0) 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>	SOW 4343 HPA-SOWK 3(1,2) 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>	SOW 4754 HPA-SOWK 3(3,0) 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>
SOP 3784 COS-PSYCH 3(3,0) 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>	SOW 4431 HPA-SOWK 3(2,1) 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>	SOW 5105 HPA-SOWK 3(3,0) 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>
SOP 5059 COS-PSYCH 3(3,0) 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>	SOW 2020 HPA-SOWK 3(3,0) Careers in Creating Social Change: Introduces students to the field of social services, with emphasis on the social work profession and other careers that create social change. <i>Fall.</i>	SOW 5106 HPA-SOWK 3(3,0) 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>

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SOW 5132 HPA-SOWK 3(3,0) 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>	SOW 5546 HPA-SOWK 1(1,0) Generalist Field Education Integrative Seminar I: 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>	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. <i>Fall, Spring.</i>
SOW 5235 HPA-SOWK 3(3,0) 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>	SOW 5565 HPA-SOWK 2(2,0) 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>	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. <i>Fall, Spring.</i>
SOW 5305 HPA-SOWK 3(3,0) 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>	SOW 5566 HPA-SOWK 2(2,0) 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>	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. <i>Fall, Spring.</i>
SOW 5306 HPA-SOWK 3(3,0) 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>	SOW 5567 HPA-SOWK 2(2,0) 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>	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. <i>Fall, Spring.</i>
SOW 5355 HPA-SOWK 3(3,0) 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>	SOW 5624 HPA-SOWK 3(3,0) 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>	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. <i>Fall, Spring.</i>
SOW 5387 HPA-SOWK 3(3,0) 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>	SOW 5625 HPA-SOWK 3(3,0) Social Work with Women: Alternative approaches to the treatment of women in the urban setting. <i>Occasional.</i>	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. <i>Fall, Spring.</i>
SOW 5404 HPA-SOWK 3(3,0) Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues. <i>Fall.</i>	SOW 5642 HPA-SOWK 3(3,0) 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>	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. <i>Fall, Spring.</i>
SOW 5432 HPA-SOWK 3(3,0) 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>	SOW 5652 HPA-SOWK 3(3,0) 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>	SPA 3632 HPA-COM SC&DIS 3(3,0) Communication Disorders in the Deaf and Hard of Hearing Population: PR: ASL 2510 or C.I. Speech, language, and hearing problems in the D/HH population, including etiology, pathology, and management of hearing disorders. <i>Occasional.</i>
SOW 5532 HPA-SOWK 2(2,0) Generalist Field Education I: PR: Admission to MSW program. Supervised practice of social work in an agency for 224 clock hours. Graded S/U. <i>Fall, Even Spring.</i>	SOW 5662 HPA-SOWK 3(3,0) Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance. <i>Occasional.</i>	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. <i>Fall, Spring.</i>
SOW 5533 HPA-SOWK 2(2,0) 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>	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. <i>Occasional.</i>	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. <i>Fall, Spring.</i>
SOW 5534 HPA-SOWK 1(1,0) 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>	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. <i>Fall, Spring.</i>	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. <i>Occasional.</i> M&S fee: \$15.00
SOW 5538 HPA-SOWK 3(3,0) 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>	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. <i>Fall, Spring.</i>	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. <i>Spring.</i>
SOW 5539 HPA-SOWK 3(3,0) 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>	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. <i>Fall, Spring.</i>	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. <i>Fall, Spring.</i>

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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. <i>Fall, Spring.</i>	SPA 5564	HPA-COM SC&DIS 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>	SPC 1608	COS-COMM 3(3,0)	Fundamentals of Oral Communication: PR: Priority will be given to students whose major requires this course. Communication theory and its application to preparing and delivering public speeches. <i>Fall, Spring.</i>
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. <i>Fall, Spring.</i>	SPB 3003	BA-BUS 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>	SPC 1608H	COS-COMM 3(3,0)	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 1608 with honors-level content. <i>Occasional.</i>
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. <i>Fall, Spring.</i>	SPB 3503	BA-BUS 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>	SPC 3301	COS-COMM 3(1,2)	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>
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. <i>Fall, Spring.</i> M&S fee: \$45.00	SPB 3603	BA-BUS 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>	SPC 3425C	COS-COMM 3(2,1)	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>
SPA 4555	HPA-COM SC&DIS 3(3,0)	Counseling in Communication Disorders: PR: SPA 4550C or C.I. Practical interviewing and counseling in the area of communication disorders. <i>Spring.</i>	SPB 3823	BA-BUS 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>	SPC 3445	COS-COMM 3(3,0)	Leadership Through Oral Communication: PR: COM 3120 and COM 3311 or C. I. Investigation of leadership in oral communication situations, principles of effective leadership, and leadership in problem solving. <i>Fall.</i>
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. <i>Occasional.</i>	SPB 4104	BA-BUS 3(3,0)	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>	SPC 3513	COS-COMM 3(1,2)	Argumentation and Debate: PR: SPC 1608 or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization. <i>Occasional.</i>
SPA 4634	HPA-COM SC&DIS 3(3,0)	Educational Implications of Deafness: PR: ASL 2510. Impact of deafness on the educational process. The impact of deafness on the individual, their family, and the classroom will be discussed. <i>Occasional.</i>	SPB 4204	BA-BUS 3(3,0)	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>	SPC 3602	COS-COMM 3(1,2)	Advanced Public Speaking: PR: SPC 1608C 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 4803	HPA-COM SC&DIS 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>	SPB 4304	BA-BUS 3(3,0)	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>	SPC 4331	COS-COMM 3(3,0)	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 4870C	HPA-COM SC&DIS 3(2,1)	Capstone Course: PR: PR or CR: SPA 4056C and senior status. Integration of essential topics in communication sciences and disorders through curriculum content reviews and community experiences. <i>Fall, Spring.</i>	SPB 4404	BA-BUS 3(3,0)	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>	SPC 4426	COS-COMM 3(3,0)	Group Dynamics: PR: COM 3311. Human behavior in group situations. <i>Fall, Even Spring.</i>
SPA 4948	HPA-COM SC&DIS 3(0,3)	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>	SPB 4704	BA-BUS 3(3,0)	Sport Business Strategy: PR: SPB 3003. The skills and knowledge applicable to the process of building and sustaining excellent sport organizations. <i>Occasional.</i>	SPC 4540	COS-COMM 3(3,0)	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)	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>	SPB 4804	BA-BUS 3(3,0)	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>	SPM 3130	ED-CFCS 3(3,0)	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)	Counseling in Communicative Disorders: PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families. <i>Spring.</i>	SPC 1603	COS-COMM 3(3,0)	Fundamentals of Technical Presentations: PR: Priority will be given to students whose major requires this course. Communication theory and its application to preparing and delivering technical information in public speaking situations. <i>Fall, Spring.</i>	SPM 3204	ED-CFCS 3(3,0)	Sports and Ethics: PR: Junior standing or C.I. An exploration into ethics and its influence on sports. <i>Fall, Spring.</i>
			SPC 1603H	COS-COMM 3(3,0)	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>	SPM 3415	ED-CFCS 3(3,0)	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>

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SPM 3504	ED-CFCS	3(3,0)	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>
SPM 4723	ED-CFCS	3(3,0)	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>
SPM 5155	ED-CFCS	3(3,0)	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>
SPM 5308	ED-CFCS	3(3,0)	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>
SPM 5506	ED-CFCS	3(3,0)	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>
SPN 1120C	CAH-LANG	4(3,1)	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>
SPN 1120H	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>
SPN 1121C	CAH-LANG	4(3,1)	Elementary Spanish Language and Civilization II: PR: SPN 1120C or equivalent. Continuation of SPN 1120C. <i>Fall, Spring.</i>
SPN 1121H	CAH-LANG	4(4,1)	Honors Elementary Spanish Language and Civilization II: PR: Permission of Honors and SPN 1120H or equivalent. Same as SPN 1121H with honors-level content. <i>Occasional.</i>
SPN 1150C	CAH-LANG	8(4,4)	Intensive Beginning Spanish: Combines SPN 1120C and SPN 1121C in an intensive one-semester unit. Emphasis on speaking, listening, reading, and writing Spanish. For students with little or no background in the language. <i>Occasional.</i>
SPN 1170	CAH-LANG	8(16,10)	Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment. <i>Occasional.</i>
SPN 2200	CAH-LANG	3(3,1)	Intermediate Spanish Language and Civilization I: PR: SPN 1121C or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Fall, Spring.</i>
SPN 2200H	CAH-LANG	3(3,1)	Honors Intermediate Spanish: PR: SPN 1121C or SPN 1121H and Consent of Honors. Development of language skills and cultural knowledge at the intermediate level. With Honors content. <i>Fall.</i>
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>
SPN 2240	CAH-LANG	3(3,1)	Intensive Spanish Conversation: PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level. <i>Occasional.</i>
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>
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>
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>
SPN 2511	CAH-LANG	3(3,0)	Modern Spanish Civilization Abroad: PR: SPN 1120C & SPN 1121C. 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>
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>
SPN 3141	CAH-LANG	3(3,0)	Business Spanish II: PR: C.I. Continuation of Business Spanish I. <i>Even Spring.</i>
SPN 3142	CAH-LANG	3(3,0)	Business Spanish III: PR: C.I. Continuation of Business Spanish II. <i>Even Fall.</i>
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>
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>
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>
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>
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>
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>
SPN 3420	CAH-LANG	3(3,0)	Spanish Composition: PR: SPN 2201 or equivalent. Development of skills in composition. <i>Fall, Spring.</i>
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>
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>
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>
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>
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>
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>
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>
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>
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>
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>
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>

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<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>SPT 3831 CAH-LANG 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></p>	<p>SPW 4364 CAH-LANG 3(3,0) 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></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 criterion when analyzing texts. Taught in Spanish. <i>Occasional.</i></p>	<p>SPT 4801 CAH-LANG 3(3,0) 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></p>	<p>SPW 4381 CAH-LANG 3(3,0) 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></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>SPW 3000H CAH-LANG 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></p>	<p>SPW 4382 CAH-LANG 3(3,0) 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></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>SPW 3100 CAH-LANG 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></p>	<p>SPW 4450 CAH-LANG 3(3,0) 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></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>SPW 3101 CAH-LANG 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></p>	<p>SPW 4460 CAH-LANG 3(3,0) 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></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 analyses focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics. <i>Odd Fall.</i></p>	<p>SPW 3130 CAH-LANG 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></p>	<p>SPW 4604 CAH-LANG 3(3,0) Cervantes: PR: SPW 3100 or C.I. Don Quixote. <i>Occasional.</i></p>
<p>SPN 5825 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></p>	<p>SPW 3131 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 of the Nineteenth century from Realism to the present. <i>Spring.</i></p>	<p>SPW 4720 CAH-LANG 3(3,0) The Generation of 1898: PR: SPW 3101 or C.I. A study of the generation's main authors and their works. <i>Occasional.</i></p>
<p>SPN 5845 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></p>	<p>SPW 3320 CAH-LANG 3(3,0) 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></p>	<p>SPW 4730 CAH-LANG 3(3,0) 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></p>
<p>SPN 5920 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></p>	<p>SPW 3321 CAH-LANG 3(3,0) 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></p>	<p>SPW 4770 CAH-LANG 3(3,0) 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></p>
<p>SPT 3800 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></p>	<p>SPW 3370 CAH-LANG 3(3,0) 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></p>	<p>SPW 4772 CAH-LANG 3(3,0) 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></p>
<p>SPT 3805 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></p>	<p>SPW 4272 CAH-LANG 3(3,0) 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></p>	<p>SPW 4773 CAH-LANG 3(3,0) 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></p>
<p>SPT 3809 CAH-LANG 3(3,0) Medical Spanish Translation/Interpretation: PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques and ethics in the field of medical translation and interpretation. <i>Odd Fall.</i></p>	<p>SPW 4310 CAH-LANG 3(3,0) 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></p>	<p>SPW 5741 CAH-LANG 3(3,0) 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></p>
	<p>SPW 4322 CAH-LANG 3(3,0) Contemporary Iberian Theatre: PR: SPW 3101 or C.I. A study of the major playwrights and tendencies in contemporary Iberian theatre. <i>Occasional.</i></p>	<p>SSE 3312 ED-TLP 3(3,0) Teaching Social Science in the Elementary School: PR: EDG 4410 or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques; evaluation procedures. <i>Fall, Spring.</i></p>

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SSE 4361 ED-TLP 4(4,0) 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>	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>	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>
SSE 4936 ED-TLP 3(3,0) Programs in Teaching Social Science: PR: Admission to the Bachelor of Science in Social Science Education program. Special programs, strategies, and materials for middle and secondary social science majors. <i>Fall.</i>	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>	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 movements, maximum likelihood, confidence intervals, hypothesis testing, transformations of two random variables. <i>Spring.</i>
SSE 5115 ED-TLP 3(3,0) 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>	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>	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>
SSE 5391 ED-TLP 3(3,0) 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>	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>	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>
SSE 5776 ED-TLP 3(3,0) 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>	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>	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>
SSE 5790 ED-TLP 3(3,0) 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>	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>	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>
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>	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>	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>
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>	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>	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>
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>	STA 4184 COS-STAT 3(3,0) Introduction to Derivative Markets: PR: STA 4183 or C.I. Cash flow and profit for simple options and forwards, hedging strategies, Black-Scholes option pricing, simple swaps, portfolio management with derivatives, duration analysis, callable bonds. <i>Spring.</i>	STA 4676 COS-STAT 3(3,0) Life Testing Analysis: PR: STA 4322. Models of survival analysis including random and non-random censoring and truncation. Parametric estimation of life distribution. Nonparametric methods. Grouped data. <i>Occasional.</i>
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>	STA 4186 COS-STAT 3(3,0) Theory of Derivative Pricing: PR: STA 4183 or C.I. Assumptions of derivative pricing, put-call parity, binomial pricing, market making, delta hedging, exotic options, distributions, Monte Carlo distributions, Brownian motion, interest rate models. <i>Spring.</i>	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>
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>	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>	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>
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>	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>	STA 4942 COS-STAT 3(3,0) Practicum in Actuarial Science: PR: STA 4183 or STA 6185. Discussion and presentation by actuarial practitioners. <i>Occasional.</i>
		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>

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<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 5940 COS-STAT 1(1,0) 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></p>	<p>SUR 4531 ECS-ENT 3(3,0) Positioning with GPS: PR: SUR 3530C. History of GPS, reference system, GPS signals, GPS observables, GPS errors, differential GPS, kinematic GPS, and data adjustments. <i>Occasional.</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 5948 COS-STAT 3(3,0) Actuarial Science Practicum: PR: STA 4183 or STA 6185. Study and projects on problems in actual practice; discussions and presentations by practitioners from life insurance, casualty, etc. <i>Occasional.</i></p>	<p>SYA 3110 COS-SOC 3(3,0) Social Theory: 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></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>SUR 2101C ECS-CEE 3(2,3) 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></p>	<p>SYA 3120 COS-SOC 3(3,0) Contemporary Social Theory: 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></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>SUR 3324C ECS-ENT 3(3,1) Digital Cartography: PR: SUR 4380. Coordinate systems, dot maps, data models and map digitizing, multivariate mapping, data measurement, topography, map compilation and map production. <i>Occasional.</i></p>	<p>SYA 3400C COS-SOC 4(3,1) Applied Social Statistics: PR: SYG 2000 and one other sociology course. Application of statistical techniques to sociological data as conducted in the research and writing of social scientists. Focus is on the analysis and interpretation of data used by sociologists. <i>Fall.</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>SUR 3331 ECS-ENT 3(3,0) Photogrammetry: PR: SUR 2140C (Advanced Surveying) - offered only at community colleges. History of photogrammetry, principles of aerial imaging, digital imagery, geometry of aerial photography, image and object spaces, stereoscopy and parallax, and topographic mapping. <i>Occasional.</i></p>	<p>SYA 4112 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></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>SUR 3530C ECS-ENT 3(2,2) 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></p>	<p>SYA 4300C COS-SOC 4(3,2) 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></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 modelling, logistic regression, McNemar's Test, Mantel-Haenszel test. <i>Occasional.</i></p>	<p>SUR 3641 ECS-ENT 3(3,0) Geospatial Computations: PR: STA 2023 or equivalent. Methods of solving linear equations, theory of matrices, partial differentiation, basic statistical concepts, probability, statistical testing, differential equations, and concepts of error analysis. <i>Occasional.</i></p>	<p>SYA 4310C COS-SOC 4(3,1) 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></p>
<p>STA 5646 COS-STAT 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></p>	<p>SUR 4360C ECS-ENT 3(3,1) Digital Photogrammetry: PR: SUR 4380. Frequency representation, image models, digital filtering, image sampling, global image analysis, geometric transformations, convolution, binary image analysis, and image matching fundamentals. <i>Occasional.</i></p>	<p>SYA 4450 COS-SOC 4(3,2) Data Analysis: PR: SYA 4300C and SYA 3400C. 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></p>
<p>STA 5703 COS-STAT 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></p>	<p>SUR 4380 ECS-ENT 3(3,0) Satellite Remote Sensing: PR: SUR 3331. Concept of satellite sensing, spectral reflectance, electromagnetic radiation, aerial photography, satellite orbits, image enhancement, land observation satellite systems, filtering, and image rectification. <i>Occasional.</i></p>	<p>SYA 4650C COS-SOC 3(2,2) Community Action and Involvement: 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></p>
<p>STA 5825 COS-STAT 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, queueing theory, and simple stochastic processes. <i>Spring.</i></p>	<p>SUR 4403 ECS-ENT 3(3,0) Boundary Location: PR: ETD 3350C or C.I. Professional liability, ethics, boundaries creation, property surveying and ownership, retracement surveys, evidence & preservation of evidence, easements, and role of surveyor in court. <i>Occasional.</i></p>	<p>SYA 5625 COS-SOC 3(3,0) 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></p>
	<p>SUR 4420 ECS-ENT 3(3,0) Cadastral Information Systems: PR: SUR 4463. Cadastral survey, land and cadastre, land registration process, legal cadastre, physical cadastre, economical cadastre, modern cadastral information system components, and parcel identifiers. <i>Occasional.</i></p>	<p>SYA 5652 COS-SOC 3(3,0) 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></p>
	<p>SUR 4463 ECS-ENT 3(3,0) Land Subdivision and Platting: PR: SUR 4403. Land development analysis, regulations and subdivision ordinance, plat recording, development potential evaluation, and site design considerations including topographic, geotechnical, and plat design specification. <i>Occasional.</i></p>	<p>SYD 3410 COS-SOC 3(3,0) Urban Society: 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></p>
		<p>SYD 3700 COS-SOC 3(3,0) Race and Ethnicity: PR: SYG 2000 or C.I. Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification. <i>Fall, Spring.</i></p>

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<p>SYD 3750 COS-SOC 3(3,0) 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></p>	<p>SYG 2000H COS-SOC 3(3,0) 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></p>	<p>SYP 3300 COS-SOC 3(3,0) Fads, Crowds, and Social Action: 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>SYD 3751 COS-SOC 3(3,0) 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></p>	<p>SYG 2010 COS-SOC 3(3,0) Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence. <i>Fall, Spring.</i></p>	<p>SYP 3400 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>SYD 3752 COS-SOC 3(3,0) 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></p>	<p>SYG 3949 COS-SOC 0(0,8) 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></p>	<p>SYP 3510 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>SYD 3800 COS-SOC 3(3,0) Sex and Gender in Society: PR: SYG 2000 or C.I. The traditional and changing roles of women and men viewed in a sociological perspective. <i>Fall, Spring.</i></p>	<p>SYO 3000 COS-SOC 3(3,0) Contemporary Society: 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></p>	<p>SYP 3511 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>SYD 4020 COS-SOC 3(3,0) Birth, Death, and Population Trends: PR: SYG 2000 or C.I. Concerned with the study of human population, its distribution, composition, and change. <i>Occasional.</i></p>	<p>SYO 3360 COS-SOC 3(3,0) 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></p>	<p>SYP 3520 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>SYD 4510 COS-SOC 3(3,0) Environment and Society: 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></p>	<p>SYO 3410 COS-SOC 3(3,0) Patterns of Mental Health in Society: PR: SYG 2000 or C.I. A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions. <i>Occasional.</i></p>	<p>SYP 3530 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>SYD 4514 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></p>	<p>SYO 3530 COS-SOC 3(3,0) Social Power and Inequality: 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></p>	<p>SYP 3540 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>SYD 4810 COS-SOC 3(3,0) 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></p>	<p>SYO 4100 COS-SOC 3(3,0) 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></p>	<p>SYP 3551 COS-SOC 3(3,0) Patterns of Alcoholism in Society: PR: SYG 2000 or C.I. Introduction to the nature of alcoholism and review of its impact on society. <i>Occasional.</i></p>
<p>SYD 4813 COS-SOC 3(3,0) Women, Law and Social Change: 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></p>	<p>SYO 4200 COS-SOC 3(3,0) Religion in Society: 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>SYP 3562 COS-SOC 3(3,0) Patterns of Domestic Violence in Society: 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>SYD 5517 COS-SOC 3(3,0) 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></p>	<p>SYO 4250 COS-SOC 3(3,0) Education and Social Achievement: 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>SYP 3602 COS-SOC 3(3,0) Patterns of Popular Music in Society: 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>SYD 5795 COS-SOC 3(3,0) 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></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>SYP 3630 COS-SOC 3(3,0) Popular Culture In Society: 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>SYG 2000 COS-SOC 3(3,0) Introduction to Sociology: Scientific study of sociological concepts, theories, processes, and methods used in understanding contemporary human behavior in group interaction. <i>Fall, Spring.</i></p>	<p>SYO 4323 COS-SOC 3(3,0) Community and Diversity: PR: SYG 2000 and junior standing. The formation of social systems in response to social problems and the implementation of public policy. Emphasis on diverse perspectives and ethical positions and their effect on the form and effectiveness of social systems. <i>Occasional.</i></p>	<p>SYP 3650 COS-SOC 3(3,0) Sports and Society: 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>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>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>

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SYP 4004	COS-SOC	3(3,0)	TAX 4001	BA-ACCT	3(3,0)	THE 3240	CAH-THEA	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>			Taxation of Business Entities and Transactions: PR: Junior standing plus completion of ACG 3131 with a grade of "C" or higher. Federal income tax laws affecting the taxation of business entities and transactions. <i>Fall, Spring.</i>			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>		
SYP 4304	COS-SOC	3(3,0)	TAX 5015	BA-ACCT	3(3,0)	THE 3311	CAH-THEA	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>			Advanced Tax Topics: PR: Graduate standing and TAX 4001. Advanced tax issues affecting business entities and their owners, with a primary focus on corporations and partnerships. <i>Occasional.</i>			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>		
SYP 4454	COS-SOC	3(3,0)	THE 2000	CAH-THEA	3(3,0)	THE 3312	CAH-THEA	3(3,0)
Global Inequality and Society: 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>			Theatre Survey: Overview of the art and craft of the theatre. Restricted to non majors. <i>Fall, Spring.</i>			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>		
SYP 4514	COS-SOC	3(3,0)	THE 2000H	CAH-THEA	3(3,0)	THE 3313	CAH-THEA	3(3,0)
Patterns of Violence in Society: PR: SYG 2000 or SYG 2010 or C.I. Social roots, culture, circumstances, prevention, and control of violence. <i>Occasional.</i>			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>			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>		
SYP 4521	COS-SOC	3(3,0)	THE 2020	CAH-THEA	3(3,0)	THE 3333	CAH-THEA	3(3,0)
Crime Victims 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>			Survey of Theatre for Majors: PR: Theatre major or minor. Overview of the art and craft of theatre. <i>Fall.</i>			Shakespeare Skills: PR: Grade of C (2.0) or better in THE 2020 or THE 2000. Study of Shakespeare's heightened language, scansion, and text from a theatrical point of view. Course not intended for BFA Theatre Acting Majors. <i>Occasional.</i>		
SYP 4536	COS-SOC	3(3,0)	THE 2025	CAH-THEA	3(3,0)	THE 3423	CAH-THEA	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>			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>			Women in Theatre: PR: Grade of C (2.0) or better in ENC 1101. An overview of women's contributions to theatre. <i>Occasional.</i>		
SYP 4550	COS-SOC	3(3,0)	THE 2050	CAH-THEA	3(3,0)	THE 3543	CAH-THEA	3(3,0)
Patterns of Drug Abuse in Society: PR: SYG 2000 or C.I. Analysis of the socio-cultural elements of the drug culture. <i>Occasional.</i>			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>			Theatre for Social Change: PR: Grade of C (2.0) or better in ENC 1101. Theatre activist's impact on theatrical art forms. <i>Occasional.</i>		
SYP 4730	COS-SOC	3(3,0)	THE 2081C	CAH-THEA	0(1,2)	THE 4093L	CAH-THEA	1(0,VAR)
Patterns of Aging in Society: PR: SYG 2000 or SYG 2010 or C.I. Sociological aspects of aging in America. <i>Fall, Spring.</i>			Introduction to UCF Theatre: PR: THE 2020 or CR: THE 2020. Specific UCF Theatre Department production protocols and operations. <i>Fall.</i>			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>		
SYP 4732	COS-SOC	3(3,0)	THE 2090L	CAH-THEA	1(0,VAR)	THE 4244	CAH-THEA	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>			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>			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>		
SYP 5005	COS-SOC	3(3,0)	THE 2304	CAH-THEA	3(3,0)	THE 4245	CAH-THEA	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>			Script Analysis: PR: Theatre major or minor. Exploration of dramatic form with focus on playscripts for productions. <i>Fall, Spring.</i>			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>		
SYP 5525	COS-SOC	3(3,0)	THE 2925L	CAH-THEA	0(0,VAR)	THE 4284	CAH-THEA	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>			Theatre Participation: PR: Theatre major or minor. Participation in UCF Theatre productions. Graded S/U. May be used in the degree program a maximum of 8 times. <i>Fall, Spring.</i>			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>		
SYP 5566	COS-SOC	3(3,0)	THE 3082	CAH-THEA	3(3,0)	THE 4285	CAH-THEA	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>			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>			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>		
SYP 5615	COS-SOC	3(3,0)	THE 3212	CAH-THEA	3(3,0)	THE 4954	CAH-THEA	0(0,0)
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>			Global Theatre: PR: Grade of C (2.0) or better required in ENC 1101 or ANT 2000. Theatrical arts and traditions of various countries with an emphasis on non-western cultures. <i>Occasional.</i>			Theatre Exit Critique: PR: Theatre Major: Senior Standing. Completion of departmental exit critique. Graded S/U. <i>Fall, Spring.</i>		
SYP 5738	COS-SOC	3(3,0)	THE 3230	CAH-THEA	3(3,0)	THE 5205	CAH-THEA	3(3,0)
Seminar on the Welfare State and Aging: PR: Graduate standing or C.I. A sociological examination of old policies from a cross-cultural perspective. <i>Occasional.</i>			Cultural Diversity in Theater: PR: "C" (2.0) or better in ENC 1101 or ANT 2000. Commonality of human experience among various cultural groups through the study of dramatic literature. <i>Occasional.</i>			American Theatre: PR: THE 5910, and MA or MFA Theatre Graduate. Examination of performance and historical perspectives of American drama. <i>Spring.</i>		

UCF Courses and Descriptions

<p>THE 5248 CAH-THFA 3(3,0) 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 master-works of a variety of genre. Emphasis will be placed upon historical trends and theatrical viability. <i>Fall</i>.</p>	<p>TPA 2210 CAH-THFA 3(3,0) Stagecraft I: PR: BFA Design/Tech or Stage Management, CR: TPA 2210L. Development, theory, and practice of technical theatre production. <i>Fall</i>.</p>	<p>TPA 3221C CAH-THFA 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>. M&S fee: \$37.00</p>
<p>THE 5278C CAH-THFA 1(1,1) Musical Theatre Lab: PR: TPP 5157C. Practical course in developing musical theatre skills for the actor. <i>Spring</i>.</p>	<p>TPA 2210L CAH-THFA 1(0,6) 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: \$45.00</p>	<p>TPA 3249C CAH-THFA 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: \$45.00</p>
<p>THE 5288 CAH-THFA 3(3,0) Period Costumes, Architecture and D�cor I: PR: Admission into Theatre MFA Design track. Costumes, architecture and decor from antiquity to the renaissance. <i>Fall</i>.</p>	<p>TPA 2211 CAH-THFA 3(3,0) 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>.</p>	<p>TPA 3260C CAH-THFA 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>THE 5289 CAH-THFA 3(3,0) Period Costumes, Architecture and D�cor II: PR: THE 5288. Costumes, architecture and decor from the Renaissance to present. <i>Spring</i>.</p>	<p>TPA 2211L CAH-THFA 1(0,6) 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: \$45.00</p>	<p>TPA 3383C CAH-THFA 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>THE 5307 CAH-THFA 3(3,0) Contemporary Theatre Practice: PR: THE 3311, THE 3312, THE 3313. Restricted to Theatre majors or departmental consent. Contemporary trends in plays and theatre production in the late 20th century. <i>Spring</i>.</p>	<p>TPA 2220C CAH-THFA 3(2,2) 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>. M&S fee: \$29.50</p>	<p>TPA 3601 CAH-THFA 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>THE 5385 CAH-THFA 3(3,0) 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>.</p>	<p>TPA 2230C CAH-THFA 3(2,2) 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</p>	<p>TPA 4041C CAH-THFA 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>THE 5910 CAH-THFA 3(3,0) 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>.</p>	<p>TPA 2248C CAH-THFA 2(2,2) 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</p>	<p>TPA 4061C CAH-THFA 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>. M&S fee: \$37.00</p>
<p>THE 5945L CAH-THFA 1(0,20) Theatre Practicum I: PR: Graduate status or C.I. A laboratory course designed to develop students' practical working knowledge in Theatre. <i>Occasional</i>.</p>	<p>TPA 2290L CAH-THFA 1(0,VAR) 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</p>	<p>TPA 4224C CAH-THFA 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>. M&S fee: \$37.00</p>
<p>THE 5946L CAH-THFA 1(0,20) Theatre Practicum II: PR: Admission into the graduate program, Theatre Practicum I. A laboratory course designed to develop students' practical working knowledge in theatre. <i>Occasional</i>.</p>	<p>TPA 2600 CAH-THFA 3(3,0) 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>.</p>	<p>TPA 4250C CAH-THFA 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 2000C CAH-THFA 3(2,2) 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>.</p>	<p>TPA 3040C CAH-THFA 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-THFA 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 2010C CAH-THFA 3(2,2) 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>.</p>	<p>TPA 3060C CAH-THFA 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>. M&S fee: \$37.00</p>	<p>TPA 4264C CAH-THFA 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 2071C CAH-THFA 3(2,2) 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>.</p>	<p>TPA 3077C CAH-THFA 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: \$45.00</p>	<p>TPA 4293L CAH-THFA 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 2201 CAH-THFA 2(2,0) 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>.</p>	<p>TPA 3195L CAH-THFA 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-THFA 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 2201L CAH-THFA 1(0,6) Technical Theatre Production Lab: CR: TPA 2201. Practical projects in scenic construction. <i>Occasional</i>. M&S fee: \$15.00</p>	<p>TPA 3197L CAH-THFA 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-THFA 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>

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<p>TPA 4401C CAH-THEA 3(2,2) 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>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>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>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>TPA 5029C CAH-THEA 3(2,2) Lighting Design Studio: PR: TPA 5042C and TPA 5062C. Advanced work in the process of designing light for the stage with an emphasis on the use of light as artistic expression. <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>TPP 3264C CAH-THEA 3(3,2) Acting on Camera: PR: BA Theatre Major: a "C" (2.0) or better in TPP 2101, TPP 3103, and THE 2020. Preparing the actor for professional work in the TV/Film industry. <i>Occasional.</i></p>
<p>TPA 5042C CAH-THEA 3(2,2) Costume Design Studio: PR: Admission to the graduate program in Theatre 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>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>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>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>TPA 5081C CAH-THEA 3(3,3) Design Concepts for Youth Theatre: PR: Admission to the graduate program in Theatre 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 departmental consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. <i>Fall, Spring.</i> M&S fee: \$15.00</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>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>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>TPA 5095C CAH-THEA 1(1,1) Rendering for Theatre I: PR: Admission to the graduate program in Theatre or C.I. Traditional visual communication skills necessary for scenic, costume, and lighting design. <i>Fall.</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>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>TPA 5175C CAH-THEA 1(1,1) Rendering for Theatre II: PR: TPA 5095C. Software and technology available for visual communication and documentation. <i>Spring.</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>	<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>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>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>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>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>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>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>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>TPP 3250 CAH-THEA 3(2,2) 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>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>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>

UCF Courses and Descriptions

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. *Fall, Spring.* M&S fee: \$15.00

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. *Occasional.*

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. *Spring.*

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. *Occasional.*

TPP 4244 CAH-THEA 3(2,2)
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. *Occasional.*

TPP 4253C CAH-THEA 3(2,2)
Musical Theatre Acting III: PR: B.F.A. Musical Theatre major, and a "C" (2.0) or better in TPP 3252 and TPP 3258C. Advanced work in cabaret/one-person construction and performance with an emphasis on show preparation. *Occasional.*

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. *Spring.*

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. *Fall.*

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. *Spring.*

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. *Spring.*

TPP 4271C CAH-THEA 2(2,2)
Musical 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. *Fall.*

TPP 4311C CAH-THEA 3(2,2)
Advanced Directing for Theatre: PR: 'A' grade in TPP 3310C. Practical experience directing class scenes and projects. *Spring.*

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. *Fall.*

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. *Occasional.*

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. *Fall.*

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. *Fall, Spring.*

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. *Odd Fall.*

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. *Fall.*

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. *Spring.*

TPP 5246C CAH-THEA 2(2,2)
Circus Arts: PR: Admission to Theatre graduate program or C.I. Circus skills and history. *Even Spring.*

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. *Spring.*

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. *Occasional.*

TPP 5289C CAH-THEA 2(2,3)
Acting Methodologies: PR: Admission to the graduate program in Theatre or C.I. Approaches to acting. *Even Fall.*

TPP 5386C CAH-THEA 3(3,3)
Directing for Young Audiences: PR: THE 5910 and THE 5385. Study of the principles, procedures, and practices of stage direction as it applies to theatre for young audiences. *Odd Spring.*

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. *Fall.*

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. *Spring.*

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. *Fall.*

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. *Spring.*

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. *Fall.*

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. *Spring.*

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. *Fall.*

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. *Odd Spring.*

TSL 3346 CAH-LANG 3(3,0)
English as an International Language: PR: Two semesters of college-level foreign language. Focus on English as it relates to native and non-native speakers. Topics include grammar, pronunciation, cross-cultural issues, and details about teaching English worldwide. *Fall, Spring.*

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. *Fall, Spring.*

TSL 4240 CAH-LANG 3(3,0)
Issues in Second Language Acquisition: PR: TSL 4080. English phonology, morphology, syntax, and semantics, for future teachers. *Fall, Spring.*

TSL 5085 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. *Fall, Spring.*

TSL 5325 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. *Occasional.*

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. *Fall, Spring.*

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. *Occasional.*

TSL 5380 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. *Occasional.*

UCF Courses and Descriptions

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>	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>	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>
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>	WST 3020 CAH-WOM 3(3,0) Girls' Studies: PR: ENC 1102. Girls' Studies, an emerging field within Women's Studies, focuses on the material experiences of girls in U.S. and global cultures using academic and popular texts. <i>Occasional.</i>	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>
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>	WST 3371 CAH-WOM 3(3,0) Women and Leadership: PR: ENC 1102. Interdisciplinary, feminist perspectives on women and leadership, examining issues such as gender differences in leadership styles, obstacles facing women leaders, and learning from women leaders. <i>Occasional.</i>	ZOO 3701C COM-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: \$45.00
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	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>	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. <i>Fall.</i> M&S fee: \$35.00
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>	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>	ZOO 3733C COM-M&M 4(3,3) Human Anatomy: PR: BSC 2010C or equivalent. Structure of the human body. <i>Fall, Spring.</i> M&S fee: \$15.00
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>	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>	ZOO 3733H COM-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. <i>Spring.</i>
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>	WST 3522 CAH-WOM 3(3,0) First and Second Wave Feminisms: PR: ENC 1102. History of Western feminist thought, from the late eighteenth century to the 1980s, through texts by First and Second Wave Feminists. <i>Occasional.</i>	ZOO 3736C COM-M&M 4(3,2) Exercise Physiology Anatomy: PR: BSC 2010C, C.I. Gross anatomy for exercise physiology majors. <i>Fall, Spring.</i> M&S fee: \$15.00
TTE 5835 ECS-CEE 3(3,0) Pavement Design: PR: CEG 4011C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy. <i>Occasional.</i>	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>	ZOO 3744 COM-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. <i>Fall, Spring.</i>
VIC 3001 COS-COMM 3(3,0) Visual Communication: PR: Journalism major or department consent. A study of human visual systems and influences of visual media on modern society. <i>Occasional.</i>	WST 3621 CAH-WOM 3(3,0) Theories of Masculinity: PR: ENC 1102. Masculinity from feminist perspectives, examining issues of race, class, sexuality, and violence, as well as constructions of masculinity in sports, family, and other institutions. <i>Occasional.</i>	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, acelous, pseudocoelous, schizocoelous, and enterocoelous invertebrates. <i>Occasional.</i> M&S fee: \$15.00
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>	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>	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. <i>Occasional.</i> M&S fee: \$45.00
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>	WST 4021 CAH-WOM 3(3,0) Girls and Leadership: PR: ENC 1102 and WST 3020. Feminist theory and practice related to the building of leadership skills in girls. Service learning component. <i>Occasional.</i>	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. <i>Odd Fall.</i>
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>	WST 4349 CAH-WOM 3(3,0) Ecofeminism: PR: ENC 1102 and WST 3015. Connections between feminism and the environment. <i>Occasional.</i>	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. <i>Spring.</i> M&S fee: \$25.00
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>	WST 4415 CAH-WOM 3(3,0) Global and Transnational Feminism: PR: ENC 1102 and WST 3015. Feminist theory from a global, multi-cultural perspective, combined with global feminist activism. Service learning component. <i>Occasional.</i>	
WST 3015 CAH-WOM 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>		

UCF Courses and Descriptions

ZOO 4605 COM-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 COM-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 4704H COM-M&M 4(3,2)
Honors Clinical Neuroanatomy: PR: ZOO 3733C and Honors consent. 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. *Occasional.*

ZOO 4747C COM-M&M 4(3,1)
Clinical Neuroscience: PR: ZOO 3744 or ZOO 4704C. Clinically oriented teachings in major neuroscience areas including selected topics in neuropathology, neuro-oncology, neuroimmunology, neuropharmacology, and neurodiagnostics. *Spring.*

ZOO 4747H COM-M&M 4(3,1)
Clinical Neuroscience Honors: PR: ZOO 3744 or ZOO 4704C and consent of Honors. Clinically oriented teachings of neuroscience areas including selected topics in neuropathology, neuro-oncology, neuroimmunology, neuropharmacology and neurodiagnostics with Honors content. *Spring.*

ZOO 4753C COM-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: \$25.00

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(2,4)
Herpetology: PR: PCB 3044 or PCB 4683 or equivalent. Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories. *Odd Spring.* M&S fee: \$15.00

ZOO 5475L COS-BIOL 3(0,6)
Field Ornithology: PR: PCB 3044 and graduate standing or C.I. Introduction to the identification, taxonomy, natural history, and biology of birds, with emphasis on survey techniques and systematics. *Occasional.* M&S fee: \$30.00

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 5745C COM-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 COM-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 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



UNIVERSITY FACULTY

The date indicates the first year of employment at the University of Central Florida.

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)

ADAMS, JOANNE, Visiting Associate Professor of Digital Media (2008), B.F.A., M.F.A. (University of Florida)

ADAMS, KENNETH, Professor of Public Affairs (2003), Ph.D. (State University of New York at Albany)

ADAMS, MICHELLE, Instructor of History (2007), B.A., M.A. (Northeastern Illinois University)

AHANGARI, RAHELEH, Instructor (2007), M.D. (Carol Davila University of Medicine and Pharmacy), Ph.D. (University of Salamanca)

AHEARN, DENNIS, Visiting Instructor of Art (2007), B.F.A., M.F.A. (Temple University)

AHERN, NANCY, Assistant Professor, College of Nursing (2004), M.S.N., Ph.D. (University of Central Florida)

AJAYI, RICHARD A., Associate Professor of Finance (1996), B.Sc., M.B.A., Ph.D. (Temple University)

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)

ALABI, FORTUNE, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

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)

ALEXANDER-SNOW, MIA, Assistant Professor of Education (2008), B.A., M.Ed., Ph.D. (Vanderbilt 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)

ALLEN, JEFFERY W., Associate Professor of Marketing (1990), B.S., M.B.A., D.B.A. (University of Kentucky)

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)

ALLRED, KELLY, Assistant Professor, College of Nursing (2007), B.S.N., M.S.N., Ph.D. (University of Central Florida)

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ZYGOURIS-COE, VICKY, Associate Professor of Education (1999), B.S., M.A. Ed.D. (University of London)



FACULTY AND ADMINISTRATION EMERITI

ABBOTT, DAVID W., Professor Emeritus of Psychology (1968), B.A., M.S., Ph.D. (University of Massachusetts)

ADICKS, RICHARD R., Professor Emeritus of English (1968), B.A.E., M.A., Ph.D. (Tulane University)

ANDERSON, BETTY, Professor Emeritus of Education (1968), B.A., M.A., Ed.D. (University of Maryland)

ANDERSON, HENRY R., Professor Emeritus of Accounting (1983), B.A., M.S., Ph.D. (University of Missouri-Columbia)

ANDREWS, LARRY C., Professor Emeritus, Mathematics (1973), B.S., M.S., Ph.D. (Michigan State University)

ARMSTRONG, LEE H., Professor Emeritus of Mathematics (1968), B.A., M.S., Ph.D. (Florida State University)

BAKER, GRAEME L., Professor Emeritus of Chemistry (1968), B.S., M.S., Ph.D. (Montana State University)

BANDY, DALTON D., Chairholder, C.G. Avery Professorship, and Professor Emeritus of Accounting (1985), B.S., M.B.A., Ph.D. (University of Texas at Austin)

BARNES, BETH, Vice President Emerita, Office of the President, and Associate Professor of English (1968), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)

BARSCHE, KARL-HEINRICH, Associate Professor Emeritus of French (1977), B.A., M.A., Ph.D. (University of Colorado)

BASS, MICHAEL, Professor Emeritus of Optics (1988), B.S., M.S., Ph.D. (University of Michigan)

BAUMBACH, DONNA J., Professor Emeritus of Education (1978), B.S., M.S., Ed.D. (Indiana University)

BIEGEL, JOHN E., Professor Emeritus of Engineering (1982), B.S.I.E., M.S.E.S., Ph.D. (Syracuse University), P.E. (Florida)

BLEDSON, ROBERT L., Professor of Political Science (1968), B.A., M.A., Ph.D. (University of Florida)

BLOCK, DAVID L., Director Emeritus, Florida Solar Energy Center and Professor Emeritus of Engineering (1968), B.S., M.S., Ph.D. (Virginia Polytechnic Institute), P.E. (Florida)

BOLTE, JOHN R., Vice President Emeritus for Administration and Finance (1968), B.A., M.A., M.S., Ph.D. (State University of Iowa)

BOSE, SUBIR K., Professor Emeritus of Physics (1987), B.Sc., M.Sc., Ph.D. (University of Allahabad)

BRENNAN, JOHN J., Professor Emeritus of Physics (1968), B.S., M.S., Ph.D. (Georgia Institute of Technology)

BRIGHAM, ROBERT C., Professor Emeritus of Mathematics and Computer Science (1970), B.S., M.S., Ph.D. (New York University)

BRUMBAUGH, DOUGLAS K., Professor Emeritus of Education (1969), B.S., M.Ed., Ed.D. (University of Georgia)

BURROUGHS, WAYNE A., Professor Emeritus of Psychology (1969), B.A., M.A., Ph.D. (University of Tennessee)

CALLARMAN, WILLIAM G., Associate Professor Emeritus of Management (1972), B.B.A., M.B.A., Ph.D. (Arizona State University)

CARROLL, WILLIAM F., Professor Emeritus of Engineering (1985), B.S., M.S., Ph.D. (University of Illinois), P.E. (California, Florida and Illinois)

COLBOURN, TREVOR, President Emeritus, Professor of History, and Special Assistant to the UCF Foundation Chief Executive Officer (1978), B.A., A.M., M.A., Ph.D. (Johns Hopkins University)

COMISH, NEWEL W., Professor Emeritus of Management (1968), B.S., M.S., Ph.D. (Ohio State University)

CORNELL, RICHARD, Professor Emeritus of Education (1968), B.S., M.S., Ed.D. (Nova University)

CUNNINGHAM, GLENN N., Professor Emeritus of Chemistry (1969), B.S., M.S., Ph.D. (North Carolina State University)

DEL-RIO, MARCELA, Professor Emeritus of Foreign Languages and Literatures (1990), B.A., M.A., Ph.D. (University of California-Irvine)

DENNING, RICHARD G., Professor Emeritus of Engineering Technology (1976), B.M.E., M.S., Ed.D. (University of Georgia), P.E. (Florida, Georgia)

DZIUBAN, CHARLES D., Professor Emeritus of Education (1970), B.S., M.Ed., Ph.D. (University of Wisconsin)

EHRHART, LLEWELLYN M., Pegasus Professor and Professor Emeritus of Biology (1969), A.B., Ph.D. (Cornell University)

ELLIS, LESLIE L., Professor Emeritus of Biology (1968), B.S., M.S., Ph.D. (University of Oklahoma)

ENO, BURTON E., Professor Emeritus of Engineering (1979), B.S., M.S., Ph.D. (Cornell University), P.E. (Florida)

ESLER, WILLIAM K., Professor Emeritus of Education (1968), B.A.Ed., M.A.Ed., Ph.D. (Kent State University)

EVANS, THOMAS G., Professor Emeritus of Accounting (1990), B.S., M.B.A., Ph.D. (Michigan State University)

FEDLER, FREDERIC E., Professor Emeritus, Nicholson School of Communication (1971), B.S., M.A. (University of Minnesota)

FERNALD, LLOYD W., Professor Emeritus of Management (1983), B.S., M.S., D.B.A. (The George Washington University)

FLICK, ROBERT G., Professor Emeritus of Humanities (1968), B.S., M.A., Ph.D. (University of Florida)

GENNARO, ROBERT N., Associate Director, Burnett School of Biomedical Sciences; Professor Emeritus of Molecular Biology and Microbiology (1970), Ph.D. (Texas A&M University)

GRIFFITH, HAROLD L., Professor Emeritus of Engineering Technology (1972), B.S., M.S. (Pennsylvania State University), P.E. (Florida)

HALL, HARRY O., Professor Emeritus of Education (1967), B.A., M.Ed., Ed.D. (University of Florida)

HOSLER, E. RAMON, Professor Emeritus of Engineering (1978), B.Ch. E., M.S., Ph.D. (University of Illinois), P.E. (Florida)

HOSNI, DJEHANE, Associate Professor Emerita of Economics (1977), B.A., M.A., Ph.D. (University of Arkansas)

HOSNI, YASSER A., Professor Emeritus of Engineering (1976), B.S.M.E., M.S., Ph.D. (University of Arkansas), P.E. (Florida)

HUDDLESTON, THOMAS, JR., Vice President Emeritus for Marketing, Communications and Admissions (1993), B.S., M.S., Ed.D. (Oklahoma State University)

HUDSON, PHYLLIS J., University Librarian Emerita (1972), B.S., M.S.L.S. (University of Illinois)

JOELS, ROSIE WEBB, Professor Emerita of Education (1978), B.A., M.Ed., Ph.D. (University of Arizona)

JOHNSON, WILLIAM H., Professor Emeritus of Education (1986), B.S., M.Ed., Ph.D. (Kent State University)

JONES JR., HALSEY R., Professor Emeritus of Management (1982), B.A., M.S., Ph.D. (Pennsylvania State University)

JUGE, FRANK E., Professor Emeritus of Chemistry (1968), B.S., Ph.D. (University of Arkansas)

KERSTEN, ROBERT D., Dean Emeritus and Professor Emeritus of Engineering (1968), B.S., M.S., Ph.D. (Northwestern University), P.E. (Florida, Arizona, and Oklahoma)

KOEVENIG, JAMES L., Professor Emeritus of Biology (1971), B.A., M.A., Ph.D. (University of Iowa)

KUHN, DAVID T., Professor Emeritus of Biology (1970), B.A., M.S., Ph.D. (Arizona State University)

KYSILKA, MARCELLA L., Professor Emeritus of Education (1969), B.S.Ed., M.Ed., Ph.D. (University of Texas)

LECKIE, SHIRLEY A., Professor Emeritus of History (1985), B.A., M.A., Ph.D. (University of Toledo)

LILIE, STUART A., Associate Professor Emeritus of Political Science (1972), B.A., Ph.D. (Johns Hopkins University)

LLEWELLYN, RALPH A., Professor Emeritus of Physics (1980), B.S., Ph.D. (Purdue University)

MADSEN, BROOKS C., Professor Emeritus of Chemistry (1970), B.S., M.S., Ph.D. (Ohio University)

MALONE, LINDA C., Professor Emeritus of Engineering Science (1979), B.S., M.S., Ph.D. (Virginia Polytechnic Institute and State University)

MANNING, PATRICIA C., Professor Emeritus of Education (1970), B.S., M.Ed., Ed.D. (Nova University)

MATHEWS, BRUCE E., Professor Emeritus of Engineering (1969), B.E.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)

MATTSON, GUY C., Professor Emeritus of Chemistry (1969), B.S., Ph.D. (University of Florida)

McBRAYER, JAMES D., Professor Emeritus of Engineering (1990), B.S.A.E., M.S., Dipl., D.Sc. (Washington University), P.E. (Florida, Missouri, Ohio)

McGEE, WILLIAM W., Professor Emeritus of Forensic Science (1968), B.S., M.S., Ph.D. (University of Florida)

MCLELLON, WALDRON M., Professor Emeritus of Engineering (1969), B.S., B.C.E., M.C.E., M.S. (Physics), M.S., (Env. Engr.), Ph.D. (Rensselaer Polytechnic Institute)

MICARELLI, CHARLES N., Dean and Professor Emeritus of Foreign Languages and Literatures (1967), B.A., M.A., Ph.D. (Boston University)

MILLER, CALVIN C., Dean and Professor Emeritus of Education (1967), B.A., M.Ed., Ed.D. (Florida State University)

MILLER, ERNEST E., Professor Emeritus of Education (1968), B.S., M.S., Ed.D. (University of North Dakota)

MILLICAN, CHARLES N., President Emeritus and Professor of Finance (1965), B.S., M.A., Ph.D. (University of Florida)

MORGAN, BEN B., JR., Professor Emeritus of Psychology (1988), B.A., M.A., Ph.D. (University of Louisville)

MULLIN, THOMAS A., Associate Professor Emeritus of Communication Sciences and Disorders (1972), B.A., M.S., Ph.D. (Syracuse University)

O'KEEFE, M. TIMOTHY, Professor Emeritus of Communication (1968), B.A., M.A., Ph.D. (University of North Carolina)

OMANS, STUART E., Professor Emeritus of English (1968), B.A., M.A., Ph.D. (Northwestern University)

OSTLE, BERNARD, Professor Emeritus of Statistics (1967), B.A., M.A., Ph.D. (Iowa State University)

PALMER, MARY J., Professor Emerita, Teaching and Learning Principles (1970), B.S., M.S., Ed.D. (University of Illinois)

PAUL, GORDON W., Professor Emeritus of Marketing (1977), B.S., M.B.A., Ph.D. (Michigan State University)

PAULEY, BRUCE F., Professor Emeritus of History (1971), B.A., M.A., Ph.D. (University of Rochester)

PHILLIPS, RONALD L., Professor Emeritus of Engineering Science and Mathematics (1970), B.S.E., M.S.E., M.A., Ph.D. (Arizona State University)

ROHTER, FRANK D., Professor Emeritus of Education (1968), B.S., M.Ed., Ph.D. (University of Southern California)

ROLLINS, JACK B., Professor Emeritus of Psychology (1969), B.S., M.S., Ph.D. (University of Georgia)

RUBIN, RONALD S., Professor Emeritus of Marketing (1972), B.A., M.A., Ph.D. (University of Massachusetts)

SALTER, JOHN H. III, Chairholder, Ernst & Young Professorship and Professor Emeritus of Accounting (1975), B.S., M.S., Ph.D. (Louisiana State University)

SCHIFFHORST, GERALD J., Professor Emeritus of English (1970), B.S., M.A., Ph.D. (Washington University)

SCHRADER, GEORGE F., Professor Emeritus of Engineering (1969), B.S., M.S., Ph.D. (University of Illinois), P.E. (Florida, Illinois)

SCOTT JR., DAVID F., Holder, Phillips-Schenck Chair in American Private Enterprise; Executive Director, Dr. Phillips Institute for the Study of American Business Activity; and Professor Emeritus of Finance (1982), B.S.B.A., M.B.A., Ph.D. (University of Florida)

SHERWOOD, HOWARD, Professor Emeritus of Mathematics (1969), B.S., M.S., Ph.D. (University of Arizona)

SHOFNER, JERRELL H., Professor Emeritus of History (1972), B.S., M.S., Ph.D. (Florida State University)

SILFVAST, WILLIAM, Professor Emeritus of Optics (1990), B.S., Ph.D. (University of Utah)

SMITH, HARRY W., JR., Professor Emeritus of Theatre (1969), B.A., M.A., Ph.D. (Tulane University)

SMITH, WILLIAM F., Professor Emeritus of Engineering (1968), B.A., M.S., Sc.D. (Massachusetts Institute of Technology), P.E. (California, Florida)

SNELSON, FRANKLIN F., JR., Professor Emeritus of Biology (1970), B.S., Ph.D. (Cornell University)

SOMERVILLE, PAUL N., Professor Emeritus of Statistics (1972), B.Sc., Ph.D. (University of North Carolina)

SORG, STEVEN E., Associate Professor Emeritus of Education (1978), B.S., M.S., Ph.D. (Florida State University)

STEGEMAN, GEORGE I.A., Professor Emeritus of Optics and EECS (1990), B.S., M.S., Ph.D. (University of Toronto)

SWEENEY, MICHAEL J., Professor Emeritus, Molecular Biology and Microbiology (1972), Ph.D. (Temple University School of Medicine)

SWEET, HAVEN C., Associate Dean, College of Sciences, and Professor Emeritus of Biology (1971), B.S., Ph.D. (Syracuse University)

TAYLOR, JAMES, Professor Emeritus of Engineering (1977), B.S.I.E., M.S., Ph.D. (University of Florida), P.E. (Florida)

TAYLOR, K. PHILLIP, Professor Emeritus of Communication (1970), B.A., Ph.D. (Indiana University)

TAYLOR, MICHAEL D., Professor Emeritus of Mathematics (1968), B.A., M.S., Ph.D. (Florida State University)

TAYLOR, WALTER K., Professor Emeritus of Biology (1969), B.S., M.S., Ph.D. (Arizona State University)

TESORI, ANTHONY P., Professor Emeritus of Education and Director Brevard Campus (1970), B.S., M.A., Ed.D. (New York University)

THOMAS, MARGARET H., Professor Emeritus of Psychology (1971), B.A., M.A., Ph.D. (Tulane University)

TUBBS, LeVESTER, Associate Professor Emeritus, Educational Research, Technology, and Leadership (1980), B.S., M.S., Ed.D. (University of Missouri-Columbia)

TUCKER, RICHARD D., Professor Emeritus of Psychology (1972), A.B., M.A., Ph.D. (Emory University)

TZANNES, NICOLAOS S., Professor Emeritus of Engineering (1986), B.E.E., M.E.E., Ph.D. (Johns Hopkins University)

WALLACE, RONALD L., Professor Emeritus of Anthropology (1975), B.A., M.A., Ph.D. (University of Florida)

WANIELISTA, MARTIN P., Professor Emeritus of Engineering (1970), B.S.C.E., M.S., Ph.D. (Cornell University), P.E. (Florida)

WHITE, ROSEANN S., Associate Director of Burnett School of Biomedical Sciences, Professor Emeritus of Molecular Biology and Microbiology (1969), Ph.D. (University of Texas S.W. Medical School)

WHITEHOUSE, GARY E., Professor Emeritus of Engineering (1978), B.S.I.E., M.S.I.E., Ph.D. (Arizona State University), P.E. (Florida, Pennsylvania)

WOLF, J. GARY, Distinguished Service Professor Emeritus of Music (1972), B.M.Ed., M.M., D.M.A. (Eastman School of Music)

WRIGHT, BURTON, Professor Emeritus of Sociology (1970), B.S., M.S., Ph.D. (Florida State University)

WYCOFF, EDGAR B., Associate Professor Emeritus of Communication (1972), B.S., M.B.A., Ph.D. (Florida State University)

YOUSEF, YOUSEF A., Professor Emeritus of Engineering (1970), B.S.C.E., M.S., Ph.D. (University of Texas), P.E. (Florida, Texas)

COURTESY APPOINTMENTS

ABBAS, SYED, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

ABDELRAHIM, MAEN A., Courtesy Associate Professor Biomolecular Science Center (2006), B.Sc. in Pharmacy, Ph.D. (Texas A&M University, College Station)

ACEVEDO, MIGUEL, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.

ADEWALE, ADEMOLA, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.

AHMAR, WASIM, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

ALBRIGHT, JAY, Courtesy Assistant Professor of Orthopaedic (2008), M.D.

ALDARONDO, SIGREDO, Associate Professor of Internal Medicine (2007), M.D.

ALEXANDER, A. MELVIN, Courtesy Assistant Professor of Orthopaedic (2008), M.D.

ALI, KAISER, Courtesy Assistant Professor of Dermatology (2008), Ph.D.

LI, MAHMOOD, Courtesy Assistant Professor of Medicine/Department of Medical Education (2007),

ALLENDE, RAFAEL, Courtesy Assistant Professor of Neurosurgery (2008), M.D.

ALLISON, LORI, Courtesy Instructor of Medical Education (2008), Ph.D.

ALMEYDA-GOMEZ, JUAN, Courtesy Assistant Professor of Pediatrics (2008), M.D.

ALMOND, JIMMY, Courtesy Assistant Professor of Family Medicine (2008), M.D.

ALVARADO, FERNANDO, Courtesy Associate Professor of Internal Medicine (2008), M.D.

ALVAREZ, JOSE, Courtesy Assistant Professor of Anesthesiology (2008), M.D.

AMGOTT, THEODORE, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

AMIRKHOSRAVI, ALI, Courtesy Assistant Professor of Medical Education (2008), Ph.D.

ANAGNOSTOPOULOS, GEORGIOS, Courtesy Assistant Professor (2007), PSP, M.S., Ph.D. (University of Central Florida)

ANDERSON, KYLE, Assistant Professor of Internal Medicine (2007), M.D.

Courtesy Appointments

- ANDERSON, MICHAEL**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- ANGELIS, MICHAEL**, Courtesy Associate Professor of Surgery - Med. Ed. (2007), M.D.
- ARLEN, PHILIP A.**, Courtesy Assistant Professor (2008), Ph.D.
- ARSENE, ANDREEA**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- AUSTIN, MITCHELL BYRNE**, Courtesy Associate Professor of Pediatric Otolaryngology (2008), M.D.
- AWE, JAIME J.**, Courtesy Professor of Anthropology (2007), Ph.D. (University of London)
- BAIDAS, SAID**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- BAKER, JAMES**, Courtesy Professor of Surgery - Med. Ed. (2007), M.D.
- BALAJI, GOBIVENKATA**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- BALLANTYNE, JOHN**, Associate Professor of Chemistry/Forensic Science (1998), Ph.D. (State University of New York at Stony Brook)
- BANCROFT, LAURA**, Courtesy Professor of Radiology (2008), M.D.
- BANEY, RICHARD**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- BARILE, ANTHONY**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- BARNARD, BRIAN**, Courtesy Assistant Professor of Orthopaedic (2008), M.D.
- BARNES, ELENA**, Assistant Professor of Internal Medicine (2007), M.D.
- BAROUDI, ISSA**, Courtesy Assistant Professor of Plastic Surgery (2008), M.D., F.A.C.S.
- BARRY, WAYNE**, Courtesy Assistant professor of Emergency Medicine - Med. Ed. (2007), M.D.
- BAYLOR, JEFFREY**, Courtesy Assistant Professor of Otolaryngology (2008), M.D.
- BEACH, KEVIN**, Assistant Research Professor of Biology (2001), B.S., Ph.D. (University of Hawaii at Manoa)
- BECKNER, MARK**, Assistant Professor of Orthopaedic Surgery (2007), M.D.
- BELFIELD, KEVIN D.**, Secondary Joint Professor of Optics & Photonics, and Biomolecular Science Center: CREOL & FPCE (1998), Ph.D. (Syracuse University)
- BELLO, DAVID**, Courtesy Associate Professor Biomolecular Science Center (2006), M.D. (Central University of Venezuela)
- BELNICK, LUCILLE**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- BENTON, JANE**, Courtesy Assistant Professor of Pediatrics (2008), M.D.
- BETTINGER, TAMARA**, Assistant Professor of Biology (2003), (Oklahoma State University)
- BHAMBRI, RAJIV**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- BHULLER, AMANPREET**, Courtesy Assistant Professor of Obstetrics & (2008), M.D.
- BIELITZKI, JOSEPH**, Secondary Joint Professor Biomolecular Science Center (2006), D.V.M. (University of Illinois at Urbana-Champaign)
- BIGSBY, GLENN**, Courtesy Assistant Professor of Obstetrics & (2008), D.O.
- BILLINGS, JOSEPH B.**, Clinical Faculty, Athletic Training: Courtesy Assistant Professor of Orthopaedic Medicine/ D.O. (Philadelphia College of Osteopathic Medicine)
- BIRENBAUM, DALE**, Courtesy (2008), M.D.
- BIRNBAUM, MARK**, Courtesy Assistant Professor of Orthopaedic (2008), M.D.
- BISHOP, LARRY**, Courtesy Assistant Professor of Dermatology (2008), M.D.
- BISSET, ROBERT**, Courtesy Assistant of Family Medicine (2008), M.D.
- BLOCH, JONATHAN**, Courtesy Assistant Professor of Surgery (2008), M.D.
- BLOCK, ERNEST**, Courtesy Professor of Surgery (2008), M.D.
- BOBUSTUC, GEORGE**, Courtesy Assistant Professor of Neurology (2008), M.D.
- BONDAR, MYKHAILO**, Visiting Assistant Professor of Chemistry B.S., M.S., Ph.D. (Institute of Physics, Kiev, Ukraine)
- BORRERO, JOSE**, Courtesy Assistant Professor of Surgery (2008), M.D.
- BOSSHARDT, RICHARD**, Courtesy Assistant Professor of Surgery - Med. Ed. (2007), M.D.
- BOUCHER, DANIELLE**, Courtesy Assistant Professor of Obstetrics (2008), M.D.
- BRADY, LOUIS**, Courtesy Associate Professor of Orthopaedic Surgery - Med. Ed. (2007), M.D.
- BRAUNSTEIN, ANDREW**, Courtesy Assistant Professor of Surgery (2008), M.D.
- BRENNAN, DANIEL**, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.
- BROWN, CLARENCE**, Courtesy Professor of Internal Medicine (2008), M.D.
- BRUNELL, MARY LOU**, Instructor, College of Nursing (1980), M.S.N. (University of Pennsylvania)
- BURGESS, ANDREW**, Courtesy Professor of Orthopaedic Surgery (2008), M.D.
- BURROWES, ADRIAN**, Courtesy Assistant Professor of Family Medicine (2008), M.D.
- BUSOWSKI, JOHN**, Courtesy Assistant Professor of Obstetrics (2008), M.D.
- BYERS, ANTHONY**, Courtesy Assistant Professor of Medical Education (2008), Ph.D.
- CALESTANI, CRISTINA**, Secondary Joint Assistant Professor of Biomolecular Science Center (2003), Ph.D. (University of Parma, Italy)
- CALIMANO, FRANCISCO**, Courtesy Assistant Professor of Medicine - Med. Ed. (2007), M.D.
- CAMDESSANCHE, JEAN-PHILLIPPE**, Courtesy Visiting Scientist-Biomolecular Science Center (2007), M.S., M.D. (Claude Bernard University, Lyon France), Advanced degree in neurosciences (Claude Bernard University, Lyon France)
- CAMPBELL, JOHN**, Courtesy Assistant Professor of Family Medicine (2008), M.D.
- CAMPBELL, MIKE**, Courtesy Instructor of Medical Education (2008), Ph.D.
- CARAKUSHANSKY, MAURI**, Courtesy Assistant Professor of Pediatrics (2008), M.D.
- CARLAN, STEPHEN**, Courtesy Professor of Obstetrics and Gynecology (2008), M.D.
- CARLSON, JOHN K.**, Research Assistant Professor of Biology (2003), (University of Mississippi)
- CARR, BRANDON**, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.
- CARTER, TIMOTHY**, Associate Professor of Neurology (2007), M.D.
- CASSIDY, DAVID**, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.
- CHACKO, CHOWALLUR**, Courtesy Assistant Professor of Psychiatry, College of Medicine, Department of Medical Education (2007), M.D.
- CHACKO, LYNN**, Assistant Professor of Family Medicine (2007), M.D.
- CHAHLAHI, ALI**, Courtesy Associate Professor of Neurosurgery (2007),
- CHAI, KARL**, Associate Professor of Molecular Biology and Microbiology (1996), Ph.D. (Medical University of South Carolina)
- CHAKRABARTI, DEBOPAM**, Associate Professor of Molecular Biology and Microbiology (1995), Ph.D. (University of Calcutta-Bose Institute)
- CHAKRABARTI, RATNA**, Associate Professor of Molecular Biology and Microbiology (1996), Ph.D. (University of Calcutta)
- CHASE, JOHN**, Assistant Professor of Orthopaedic Surgery (2007), M.D.
- CHEATHAM, MICHAEL**, Courtesy Professor of Surgery (2008), M.D.
- CHEN, PHILLIP**, Courtesy Assistant Professor of Molecular Biology and Microbiology (2002), M.D. (University of Alabama at Birmingham)
- CHITTICK, ELIZABETH**, Assistant Research Professor of Biology (2002), (Tufts University)
- CHOUDHRY, AFZAL**, Courtesy Assistant Professor of Neurology (2008), M.D.
- CHOW, LOUIS C.**, Secondary Joint Professor of Optics & Photonics (2005), M.S., Ph.D. (University of California, Berkeley)
- CHULANI, VEENOD**, Courtesy Assistant Professor of Pediatrics (2008), M.D.
- CLARK, MARK**, Courtesy Associate Professor of Emergency (2008), M.D.
- COBB, KATHY**, Courtesy Adjunct Instructor, Educational Research, Technology, and Leadership (2007), J.D. (Stetson University)
- COFFEY, KEVIN**, Secondary Joint Associate Professor of Electrical and Computer Engineering (2005), B.A., B.S., M.S., PhD (Massachusetts Institute of Technology)
- COHEN, MICHAEL**, Courtesy Assistant Professor of Surgery (2008), M.D.

COLE, ARIEL, Courtesy Assistant Professor of Family Medicine, College of Medicine, Department of Medical Education (2007), M.D.
COLUMBUS, GENE, Department of Theatre (2000),
COMMINS, STEPHEN, Courtesy Associate Professor of Pediatrics (2008), M.D.
CONDO, ALLEN, Courtesy Assistant Professor of Family Medicine (2008), M.D.
CONLEY, LAWRENCE, Assistant Professor of Emergency Medicine (2007), M.D.
CONNOR, JASON, Courtesy Assistant Professor of Medical Education (2008), Ph.D.
COOK, CLAYTON B., Professor of Biology (2002), B.A., Ph.D. (Duke University)
CORRIZOSA, JAIME, Courtesy Associate Professor of Internal Medicine - Med. Ed. (2007), M.D.
COUGHLIN, GEOFFREY, Courtesy Assistant Professor of Urology (2008),
CRANIS, PETER, Associate Faculty of Communication (2002), (University of Central Florida)
CRESPO, ANTONIO, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
CROCKETT, SAMUEL, Courtesy Associate Professor of Medicine (2007), M.D.
CROTTY, CHRISTOPHER, Assistant Professor of Dermatology (2007), M.D.
CSENCSTZ, THOMAS, Courtesy Associate Professor of Orthopaedic (2008), M.D., Ph.D.
CUSCELA, DANIEL, Assistant Professor of Radiation Oncology (2007), D.O.
CUTY-RUIZ, LAURA, Courtesy Assistant Professor of Medical Education (2008), Ph.D.
DAABOUL, JORGE J., Courtesy Associate Professor of Pediatrics (2008), M.D.
DANA, GARY, Courtesy Assistant Professor of Family Medicine (2008), M.D.
DANDAPANI, BHUVANESWARI, Courtesy Assistant Professor of Neurology (2008), M.D.
DANIELL, HENRY, Professor of Molecular Biology and Microbiology (1998), Ph.D. (Madurai-Kamaraj University)
DAVIS, WILBUR, Courtesy Associate Professor of Medical Education (2008), D.D.S.

De FREESE, DUANE, Professor of Biology (2001), B.S., M.S., Ph.D. (Florida Institute of Technology)
De JESUS, SAMUEL, Courtesy Assistant Professor of Surgery (2008), M.D.
de LA ROSA, CARLOS L., Associate Professor of Biology (1998), B.S., Ph.D. (University of Pittsburgh)
DEATON, JOHN, Assistant Professor of Psychology (1994), B.A., M.A., Ph.D. (Catholic University of America, Washington, D.C.)
DeCAMPLI, WILLIAM, Courtesy Professor of Surgery (2008), M.D., Ph.D.
DeFREESE, DUANE, Visiting Associate Scientist and Interim Director, UCF Institute for Environmental Sustainability. (2008), B.S., M.S., Ph.D. (Florida Institute of Technology)
DeJONG, E. SCHUYLER, Courtesy Assistant Professor of Orthopaedic (2008), M.D.
DELIWALA, PALLAVI B., Clinical Faculty, College of Nursing (2002), (University of Bombay)
DeLOACH, JR., BERNARD C., Courtesy Professor School of Electrical Engineering and Computer Science (2004), B.S., M.S., Ph.D. (Ohio State University)
DEMARA, RONALD F., Secondary Joint Associate Professor, School of Computer Science (2004), B.S., M.S., Ph.D. (University of Southern California)
DEMPSEY-WALLS, SUSAN, Courtesy Clinical Faculty, College of Nursing (2005), B.S.N., M.S.N. (University of California at Los Angeles)
DESAI, SHEKHAR, Courtesy Assistant Professor of Orthopaedic Surgery (2008), M.D.
DESROSIERS, PAUL, Courtesy Assistant Professor of Pediatrics (2008), M.D.
DEUKMEDJIAN, ARA, Courtesy Assistant Professor of Neurosurgery (2008), M.D.
DeVANE, GARY, Courtesy Associate Professor of Obstetrics (2008), M.D.
DEYRUP, MARK, Assistant Professor of Biology (1994), B.S., M.S., Ph.D. (University of Washington)
DHERE, NEELKANTH, Research Professor of Mechanical Engineering and Secondary Joint Professor of Electrical Engineering and Secondary Joint Professor of Materials Science and Engineering (1990), B.S., M.S., Ph.D. (University of Poona, Pune, India)
DILLON, MARK, Courtesy Assistant Professor of Internal Medicine (2008),

DIXIT, MEHUL, Courtesy Associate Professor of Pediatrics (2008), M.D.
DIXIT, NAZNIN, Courtesy Associate Professor of Pediatrics (2008), M.D.
DOBRADIN, ANDREW, Courtesy Assistant Professor of Surgery, College of Medicine, Department of Medical Education (2007), M.D., Ph.D.
DOGARIOU, ARISTIDE, Secondary Joint Associate Professor School of Electrical Engineering and Computer Science (1995), Ph.D. (Hokkaido University)
DOUKAS, MICHAEL A., Courtesy Professor of Health Services Administration; Courtesy Professor of Internal Medicine (2006), B.A., M.P.A., M.D. (Johns Hopkins School of Medicine, Baltimore)
DRAKE, DONALD, Courtesy Assistant Professor of Medical Education (2008), Ph.D.
DRAKE, JASON, Courtesy Research Assistant Professor of Biology (2004), B.S., M.S., Ph.D. (University of Maryland)
DUCHARME, ALFRED, Courtesy Assistant Professor of Optics and Photonics. (2005), B.S., E.E., PhD (University of Central Florida)
DUNCAN, JOHN, Courtesy Assistant Professor of Pediatrics (2008), M.D.
DUPRAS, TOSHA LEA, Secondary Joint Assistant Professor of Biology (2003), B.A., M.S., Ph.D. (McMaster University)
DURHAM, RODNEY, Courtesy Professor of Surgery (2008), M.D.
EAGLIN, RONALD, Joint Associate Professor, School of Film & Digital Media and Engr Technology (2003), B.S., M.S., Ph.D. (University of Central Florida)
EASON, RONALD, Courtesy Assistant Professor of Obstetrics (2008), M.D.
EASTES, RICHARD W., Secondary Joint Assistant Professor of Electrical Engineering (2006), B.S., M.A., Ph.D. (The Johns Hopkins University)
EASTON, ROBERT M., Assistant Professor of Medical Education (2007), O.D.-FAAO
EDWARDS, JOHN, Courtesy Assistant Professor of Pediatrics (2008), Courtesy Assistant Professor of Pediatrics
EINHORN, ARNOLD, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
ELSTON, JEFFREY, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

ERTENBERG, LUCY, Courtesy Associate Professor of Family Medicine (2007), M.D.
ESKIOGLU, ERIC, Courtesy Assistant Professor of Neurosurgery (2008), M.D.
ESLIN, DON, Courtesy Assistant Professor of Pediatrics (2008), M.D.
EVERETT, GEORGE, Courtesy Associate Professor of Internal Medicine (2008), M.D.
FALK, JAY, Courtesy Professor of Emergency Medicine (2008), M.D.
FALLUCCA-SCHNEIDER, LINDA, Clinical Faculty, College of Nursing (2002), (Rush University)
FERNANDEZ-VALLE, CHRISTINA, Associate Professor of Molecular Biology and Microbiology (1995), Ph.D. (University of Miami)
FERRARA, ANDREA, Courtesy Associate Professor of Surgery (2008), M.D.
FIALA, THOMAS, Courtesy Assistant Professor of Plastic Surgery (2008), M.D.
FIELD, MELVIN, Courtesy Associate Professor Biomolecular Science (2006), M.D. (University of Florida), Diplomat of the National Board of Medical Examiners
FIELDS, THOMAS, Courtesy Assistant Professor of Urology (2008), M.D.
FILARDO, ANTHONY, Courtesy Instructor of Medical Education (2007),
FINKLER, NEIL, Courtesy Professor of Obstetrics and Gynecology (2008), M.D.
FLEMING, JOHN, Courtesy Assistant Professor of Internal Medicine, College of Medicine, Department of Medical Education (2007), M.D.
FONTANE, EMILY, Courtesy Associate Professor of Emergency medicine (2008), M.D.
FORBES, ALAN, Courtesy Professor of Radiation (2008), M.D., Ph.D.
FORMAN, SETH, Courtesy Assistant Professor of Dermatology (2008), M.D.
FRANCIS, JOHN, Courtesy Professor of Medical Education (2008), Ph.D.
FRANKLIN, RAYMOND, Clinical Faculty, MLS, Department of Molecular Biology and Microbiology; Courtesy Assistant Professor of Pathology M.D., Ph.D. (University of Texas)
FREEMAN, NEAL, Courtesy Assistant Professor of Ophthalmology - Med. Ed. (2007), M.D.
FRIEDEL, MARK, Courtesy Associate Professor of Surgery (2008), M.D.

Courtesy Appointments

FRIEDMAN, DAVID, Courtesy Adjunct Professor of Biology (2007),
FRISTROM, JAMES W., Courtesy Research Professor of Biology (2004), B.A., Ph.D. (Rockefeller University)
FULLERTON, STUART, Biological Research Associate (1995), B.S. (University of Central Florida)
FULTON III, ROLLAND, Courtesy Associate Professor of Biology (2004), B.A., Ph.D. (Duke University)
FUSCO, MARK, Courtesy Assistant Professor of Surgery (2008), M.D.
GALLAGHER, JOSEPH, Courtesy Assistant Professor of Surgery (2008), M.D.
GAMMON, RICHARD, Courtesy Assistant Professor of Pathology (2008), M.D.
GARCIA, DANIEL, Courtesy Assistant Professor of Pediatrics (2008), M.D.
GARIBAY, IVAN, Secondary Joint Instructor School of Electrical Engineering and Computer Science (2007), Ph.D. (University of Central Florida)
GARLAND, JAY, Associate Research Professor of Biology (2002), B.S., M.S., Ph.D. (University of Virginia)
GAVIN, LESLIE ANN, Courtesy Assistant Professor of Pediatrics (2008), Ph.D.
GELLER, DAVID, Associate Professor of Pediatrics (2007), M.D.
GIBSON, JANE, Courtesy Assistant Professor of Pathology (2008), Ph.D.
GILBERT, PETER, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
GLEN, HARRY, Courtesy Assistant Professor of Ophthalmology (2008), M.D.
GLENER, DAVID, Courtesy Assistant Professor of Anesthesiology (2008), M.D.
GO, EUGENE, Courtesy Assistant Professor of Medicine - Med. Ed. (2007), M.D.
GOBVENKATA, BALAJI, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
GOLDBERG, STEVEN, Courtesy Associate Professor of Psychology: Chief, Orlando Field Unit, US Army Research Institute (1994), B.A., Ph.D. (State University of New York at Buffalo)
GOLDEN, NANIALEI, Assistant Professor of Radiation Oncology (2007), M.D.
GOLDIEZ, BRIAN, Secondary Joint Assistant Professor (2006), B.S., M.S., Ph.D. (University of Central Florida)

GOODMAN, GARY, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.
GOODMAN, IRA, Courtesy Associate Professor Biomolecular Science Center (2006), B.S., M.D. (Medical College of Pennsylvania), Board certified, Neurology (American Board of Psychiatry and Neurology)
GOODWIN, KENNETH, Courtesy Assistant Director, Career Services and Experiential Learning (2006),
GORDIN, PATRICIA, Courtesy Adjunct - Educational Research, Technology & Leadership (2007),
GORDON, ALAN, Courtesy Assistant Professor of Obstetrics and Gynecology (2008), M.D.
GORDON, PAUL R., Courtesy Associate Professor of Pediatrics (2008), M.D.
GORHAM, JAYNE S., Courtesy Adjunct (2007), Ed.D. (Nova Southeastern University)
GRAFF, KENNETH, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
GREENBERG, HAROLD, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
GREENSPOON, JEFFREY, Courtesy Assistant Professor of Orthopaedic Surgery (2008), M.D.
GRIFFIS, SUSAN E., Clinical Faculty, College of Nursing (2002), (Creighton University)
GUARDA, LUIS A., Courtesy Professor, Medical Laboratory Sciences; Courtesy Associate Professor of Pathology (2005), M.D. (University of Chile)
GUNTER, GLENDA, Associate Professor of Education and Secondary Joint Associate Professor of Digital Media (1996), A.S., B.S., M.A., Ph.D. (Mississippi State University)
GURRI, JOSEPH, Courtesy Assistant Professor of Surgery (2008), M.D.
GUSSO, RICHARD, Courtesy Assistant Professor of Medicine (2008), M.D.
GUTHRIE, GEORGE, Courtesy Assistant Professor of Family Medicine (2008), M.D.
GUTIERREZ, MICHAEL, Courtesy Assistant Professor of Dermatology (2008), M.D.
HAAS, BRIAN, Associate Professor of Ophthalmology (2007), M.D.

HADDADIN, MUNTER, Courtesy Professor of Civil, Environmental, and Construction Engineering (2006), B.S., M.S., Ph.D. (University of Washington, Seattle, WA)
HAFFEEZ, SAJID, Courtesy Assistant Professor of Psychiatry (2008), M.D.
HAGLOCH, JAY, Courtesy Assistant Professor of Family Medicine (2008), M.D.
HAIM, Y. DANIEL, Courtesy Assistant Professor of Medicine (2007),
HAJDENBERG, JULIO, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
HAJJAR, FOUAD, Courtesy Assistant Professor of Pediatrics (2008), M.D.
HALL, THOMAS, Courtesy Instructor of Psychiatry (2008), LCSW
HAMEER, HUSSEIN, Courtesy Assistant Professor of Pathology (2008), M.D.
HAN, WADE, Courtesy Assistant Professor of Otolaryngology (2008), M.D.
HARRIS, BARBARA, Courtesy Assistant Professor of Obstetrics (2008), M.D.
HART, MARY, Courtesy Assistant Professor of Nuclear Medicine (2008), M.D.
HAVKIN, BORIS, Courtesy Assistant Professor of Urology (2008), M.D.
HAZDAY, MARCUS, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
HEINONEN, OLLE, Associate Professor of Physics (1989), B.S., Ph.D. (Case Western Reserve University)
HENDERSON, MOYA, Courtesy Visiting Artist (2007),
HENSEL, KURT, Courtesy Assistant Professor of Orthopaedic (2008), M.D.
HERBST, LAWRENCE, Assistant Research Professor of Biology (2002), B.A., M.S., D.V.M., Ph.D. (University of Florida)
HERNANDEZ, ANTONIO, Courtesy Associate Professor of Pathology (2008), M.D.
HERNANDEZ, FLORENCIO E., Secondary Joint Assistant Professor of Optics & Photonics. (2004), B.S., Ph.D. (Universidad de Venezuela)
HERRAN, JUAN, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
HERRERA, LUIS, Courtesy Assistant Professor of Surgery (2008), M.D.

HERRERA-SOTO, JOSE, Courtesy Assistant Professor of Orthopaedic (2008), M.D.
HICKEY, MICHAEL H., Associate Professor of Physics (2003), Ph.D. (La Trobe University)
HICKMAN, JAMES, Secondary Joint Professor School of Electrical Engineering and Computer Science (2004), Ph.D. (Massachusetts Institute of Technology)
HIGBEE, RUSSELL, Courtesy Professor of Molecular Biology and Microbiology (2004), D.V.M. (Oklahoma State University)
HILAL, RAOUF, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
HILL, ASHLEY, Courtesy Associate Professor of Obstetrics and Gynecology (2008), M.D.
HO, HENRY, Courtesy Assistant Professor of Otolaryngology (2008), M.D.
HOESE, VALERIE, Courtesy Associate Professor of Psychiatry (2007), Ph.D.
HOLLOWAY, ROBERT, Courtesy Professor of Obstetrics and Gynecology (2008), M.D.
HOLSENBECK, DANIEL, Associate Faculty, School of Communication (1985), Ph.D. (Florida State University)
HOOD, MARGARET, Courtesy Assistant Professor of Pediatrics (2008), M.D.
HORNICK, RICHARD, Courtesy Professor of Medicine (2007),
HOSEY, DAMANI, Courtesy Assistant Professor of Family Medicine (2008), M.D.
HSU, VINCENT, Courtesy Assistant Professor of Internal Medicine (2008), M.D., MPH
HUANG, XU, Courtesy Visiting Scholar (2007), BS., M.B.A., Ph.D. (Southwestern University of Finance and Economics), M.B.A. (Southwestern University of Finance and Economics)
HUGHES, JAY, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
HUSTY, TODD, Courtesy Assistant Professor of Emergency Medicine - Med. Ed. (2007), D. O.
IRWIN, RICHARD B., Research Professor of Materials Science B.S., M.S., Ph.D. (University of Pittsburgh)
ISENMAN, MARTIN, Assistant Professor of Internal Medicine (2007), M.D.
JACOBS, DANIEL H., Courtesy Associate Professor of Neurology (2008), M.D.

JAFFE, SHARAN, Courtesy Associate Professor of Obstetrics and Gynecology (2008), M.D.

JAMNADAS, PRADIP, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

JANARTHANAN, BAGI, Assistant Professor of Internal Medicine (2007), M.D.

JANI, ASIM, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

JARVIS, JOHN, Courtesy Research Associate Professor (2006), B.A., B.S., M.A., Ph.D. (University of Virginia)

JEDLICA MORRIS, LORI, Courtesy Research Associate Professor of Biology (2004), M.A. (College of William and Mary)

JENKINS, WAYNE, Courtesy Assistant Professor of Radiation (2008), M.D.

JIMENEZ, EDGAR, Courtesy Associate Professor of Internal Medicine (2008), M.D.

JOHNSON, ERIC, Secondary Joint Professor School of Electrical Engineering and Computer Science (2000), Ph.D. (University of Alabama)

JOHNSON, NANCY M., Courtesy Clinical Nurse Specialist (2006), B.S., M.S.N. (University of Evansville, Indiana)

JOHNSON, TIRRELL, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

JUNGREIS, ALEXANDER, Assistant Professor of Neurology (2007), M.D.

KACHURIN, ANATOLY, Courtesy Assistant Professor of Molecular Biology and Microbiology (2004), Ph.D. (Russian Academy of Science, St. Petersburg Nuclear Physics Institute)

KAHANG, CHAN, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.

KALIDAS, KIRTI MANEKLAL, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

KAPLAN, M. LAWRENCE, Courtesy Assistant Professor of Emergency (2008), M.D.

KAPLAN, MICHAEL, Professor of Psychology Ph.D. (Columbia University)

KAPOOR, VIKRAM, Courtesy Professor of Electrical & Computer Engineering (2004), Ph.D. (Lehigh University)

KAR, ARAVINDA, Secondary Joint Associate Professor of Electrical and Computer Engineering (2005), B.S., M.S., Ph.D. (University of Illinois at Urbana-Champaign)

KARAS, STEVEN, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

KATZ, BARRY, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

KAYALEH, OMAR, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

KEATING, MICHAEL A., Courtesy Professor of Pediatric Urology (2008), M.D.

KEIL, K. MICHAEL, Courtesy Assistant Professor of Emergency Medicine - Med. Ed. (2007), M. D.

KELLY, DANIEL P., Courtesy Professor of Biomedical Sciences, Biomolecular Science Center (2008), M.D.

KENNEDY, ROBERT S., Professor of Psychology B.A., M.A., Ph.D. (University of Rochester)

KENNY, ROBERT F., Assistant Professor of School of Film and Digital Media and Secondary Joint Assistant Professor of Educational Research, Technology, and Leadership (2005), B.A., M.A., Ph.D. (University of Florida)

KIELMOVITCH, IZAK, Courtesy Assistant Professor of Otolaryngology (2008), M.D.

KINCAID, J. PETER, Professor of Psychology and Senior Research Scientist, Modeling and Simulation and Secondary Joint Professor of Medical Education B.A., M.A., Ph.D. (Ohio State University)

KISS, BRIAN, Courtesy Associate Professor of Internal Medicine (2008), M.D.

KLEIN, RICHARD, Courtesy Assistant Professor of Plastic Surgery (2008), M.D., MPH

KNAPP, DENNIS, Courtesy Assistant Professor of Orthopaedic (2008), M.D.

KNYCH, STEPHEN, Courtesy Assistant Professor of Orthopaedic (2008), M.D.

KOCHAN, JANEEN, Courtesy Instructor of Medical Education (2008), Ph.D.

KOLIN, IRVING, Associate Professor of Psychiatry (2007), M.D.

KOLIN, LAWRENCE, Assistant Professor of Medical Education (2007), J.D.

KOLLAS, CHAD, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

KONSENS, RICHARD, Assistant Professor of Orthopaedic Surgery (2007), M.D.

KRAUCAK, NELSON, Courtesy Assistant Professor of Family Medicine (2008), M.D.

KRIETE, RHODES, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

KRUPP, LINDA, Courtesy Adjunct Instructor, Educational Studies (2007), Ed.D. (University of Florida)

KUCHMA, MELISSA, Courtesy Visiting Scientist (2006), Ph.D. (Massachusetts Institute of Technology)

KUPELIAN, PATRICK, Courtesy Professor of Radiation Oncology (2008), M.D.

KUPISZEWSKI, STANLEY, Courtesy Assistant Professor of Orthopaedic Surgery (2008), M.D.

KURJACK, EDWARD, Courtesy Professor of Anthropology (2001), Ph.D. (Ohio State University)

KYLE, TIFFANY LINKOVICH, Courtesy Research Assistant Professor of Psychology (2007), B.A., M.S., Ph.D. (University of Central Florida)

LACY, THOMAS, Courtesy Associate Professor of Pediatrics (2007), M.D.

LADDE, JAY, Courtesy Assistant Professor of Emergency (2008), M.D.

LADOWSKI, STEPHANIE, Courtesy Assistant Professor of Obstetrics (2008), M.D.

LAIL, BRIAN, A., Courtesy Assistant Professor of Electrical Engineering and Computer Science (2005), B.S., M.S., M.S. E.E., Ph.D.E.E. (New Mexico State University, Las Cruces, New Mexico)

LAMPRECHT, CATHERINE L., Courtesy Assistant Professor of Pediatrics (2008), M.D.

LANDIS, MILES, Courtesy Assistant Professor of Pediatrics (2008), M.D.

LAYISH, DANIEL, Courtesy Associate Professor of Medicine (2007),

LEAVELL JR., ULLIN, Courtesy Professor of Dermatology (2008), M.D.

LEAVITT, MATT, Assistant Professor of Dermatology (2007), D.O.

LEBIODA, DAVID, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

LEE, HAEJONG, Courtesy Research Associate in Public Affairs (2005), Ph.D. (Yonsei University, Seoul, Korea)

LEE, WHA-JOON, Courtesy Assistant Professor of Otolaryngology (2008), M.D., Ph.D.

LEHMAN, JEFFREY, Clinical Professor in Communication Sciences and Disorders; Courtesy Assistant Professor of Otolaryngology (2003), (University of Wisconsin)

LEHR, JOHN, Courtesy Assistant Professor of Ophthalmology (2008), M.D.

LELI, DANO, Faculty Associate, Psychology B.A., M.S., Ph.D. (University of South Florida)

LERUD, KRAIG, Courtesy Assistant Professor of Pathology (2008), M.D.

LEUENBERGER, MICHAEL N., Secondary Joint Assistant Professor of Electrical and Computer Engineering (2005), B.S., M.S., Ph.D. (University of Basel, Switzerland)

LEVINE, HENRY, Assistant Professor of Internal Medicine (2007), M.D.

LEVITT, ADAM, Courtesy Assistant Professor of Surgery (2008), M.D.

LEVITT, CHAD, Courtesy Assistant Professor of Radiation (2008), M.D.

LI, GUIFANG, Secondary Joint Associate Professor School of Electrical Engineering and Computer Science (1997), Ph.D. (University of Wisconsin-Madison)

LI, SHUAN, Courtesy Associate Professor of Pathology (2008), M.D.

LIBERMAN, STUART, Assistant Professor of Urology (2007), M.D.

LICITRA, CARMELO, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

LIEBERMAN, LESLIE, Courtesy Professor of Medical Education (2008), Ph.D.

LIEBERMAN, R. JANE, Chair and Professor of Communication Sciences and Disorders (2000), B.S., M.S., Ph.D. (University of Florida)

LIKAMWA, PATRICK, L., Secondary Joint Associate Professor School of Electrical Engineering and Computer Science (1993), Ph.D. (University of Sheffield)

LILIE, JOYCE R., Associate Professor of Political Science (1985), B.A., M.A., Ph.D. (Johns Hopkins University)

LIVINGSTON, FLOYD, Courtesy Associate Professor of Pediatrics (2008), M.D.

LIZAMA, ANNA, Courtesy Assistant Professor of Obstetrics (2008), M.D.

LOCKSMITH, GREGORY, Courtesy Assistant Professor of Obstetrics (2008), M.D.

LOUGHNER, BARRY A., Clinical Faculty, Health Services Administration; Courtesy Associate Professor of Medical Education D.D.S., M.S., Ph.D. (University of Florida)

LOVAS, RICHARD, Courtesy Assistant Professor of Nuclear Medicine (2008), M.D.

Courtesy Appointments

LOY, RANDALL, Courtesy Associate Professor of Obstetrics and Gynecology (2008), M.D.

LUBE, MATTHEW, Courtesy Professor of Surgery (2008), M.D.

LYNCH, JOYCE, Courtesy Assistant Professor of Otolaryngology (2008), M.D.

MA, MUCHOU, Courtesy Assistant Professor of Pathology (2008), M.D., Ph.D.

MACKSOUD, WAHID, Courtesy Assistant Professor of Orthopaedic Surgery (2008), M.D.

MADRUGA, MARIO, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

MAGEE, THOMAS, Courtesy Associate Professor of Radiology (2008), M.D.

MALIK, KHIZAR, Assistant Professor of Neurology (2007), M.D.

MANON, RAFAEL, Courtesy Assistant Professor of Radiology (2008), M.D.

MANOUCHERI, MANOUCHER, Courtesy Assistant Professor of Family Medicine (2008), M.D.

MARATHE, SHIRAM, Courtesy Assistant Professor - Public Affairs (2007),

MARTIN, JULIA, Courtesy Associate Professor of Pathology (2007), M.D.

MARTIN, LAWRENCE, Professor, Public Administration and Public Affairs, Joint Appointment (2004), Ph.D. (Arizona State University)

MARTINEZ, RAMON, Assistant Professor of Psychiatry (2007), M.D.

MARTINEZ, SANTIAGO, Courtesy Assistant Professor of Pediatrics, College of Medicine, Department of Medical Education (2007), M.D.

MARZANO, PETER, Assistant Professor of Internal Medicine (2007), M.D.

MASCOE, MAURICE, Courtesy Assistant Professor of Emergency (2008), M.D., FACEP

MASOOD, AHMED, Courtesy Assistant Professor of Medicine - Med. Ed. (2007), M.D.

MATHIAS, ROBERT, Professor of Pediatrics (2007), M.D.

MAYER, DAVID, Secondary Joint Appointment, Assistant Professor of Psychology (2005),

McCLELLAND, JAMES, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

McCLURE, JOSEPH, Assistant Professor of Internal Medicine (2007), M.D.

McDONALD, MICHAEL, Courtesy Assistant Professor of Urology, College of Medicine, Department of Medical Education (2007), M.D.

McDOUGALL, JEFFREY, Courtesy Assistant Professor of Family Medicine (2008), M.D.

McHALE, MICHAEL, Courtesy Clinical Faculty, College of Nursing (2002), (Philadelphia College of Osteopathic Medicine)

McINNES, DAVID, Courtesy Assistant Professor of Family Medicine (2008), M.D.

McNEES, PATRICK, Courtesy Faculty Associate, School of Nursing (2002), University of Florida

McPHERSON, BRENDA, Faculty Associate, Educational Studies (2003),

McREYNOLDS, JOHN WILLIAM, Courtesy Assistant Professor of Pediatrics (2008), M.D.

McWHORTER, JEANNIE, Courtesy Professor of Obstetrics (2008), M.D.

MEDIN, A. LOUIS, Professor of Engineering Ph.D. (Ohio State University)

MEHTA, VINEET, Courtesy Assistant Professor of Psychiatry (2008), M.D.

MELLEN, JILL, Assistant Research Professor of Biology (1999), B.S., M.S., Ph.D. (University of California, Davis)

MELVIN, EUGENE, Courtesy Assistant Professor of Anesthesiology (2008), M.D.

MEMBRENO, JAIME, Courtesy Assistant Professor of Ophthalmology, College of Medicine, Department of Medical Education (2007), M.D.

MENGES, ERIC, Assistant Professor of Biology (1994), B.S., M.S., Ph.D. (University of Wisconsin)

METZGER, ROBERT, Courtesy Associate Professor of Medicine (2008), M.D.

MIDDLETON, ROBERT, Courtesy Assistant Professor of Pediatrics (2008), M.D.

MILLER, GARY, Courtesy Assistant Professor of Family Medicine, College of Medicine, Department of Medical Education (2007), M.D.

MILLER, MARK, Courtesy Assistant Professor of Radiology (2008), M.D.

MILLS, BARRY, Assistant Professor of Internal Medicine (2007), M.D.

MILOV, DAVID, Courtesy Associate Professor of Pediatrics (2008), M.D.

MILUNSKI, MARK, Courtesy Associate Professor of Medicine (2007),

MISHKIN, ERIC, Courtesy Assistant Professor of Medical Education (2008), Ph.D.

MOBIN, SYED, Courtesy Assistant Professor of Medicine - Med. Ed. (2007), M.D.

MOGLE, DOUGLAS, Courtesy Assistant Professor of Neurology (2008), M.D.

MOINFAR, NADER, Courtesy Assistant Professor of Ophthalmology (2008), M.D.

MOLNAR, PETER, Secondary Joint Assistant Professor of Biomolecular Science Center (2005), Ph.D. (Eotvos Lorand University, Hungary)

MOLPUS, BRANTLEY, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.

MOLTHROP, DAVID, Assistant Professor of Internal Medicine (2007), M.D.

MOMPOINT-BRANCH, MYRTHO, Courtesy Assistant Professor of Psychiatry (2008), M.D.

MONIR, GEORGE, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

MONTANE, BRENDA, Courtesy Associate Professor of Pediatrics (2008), M.D.

MONTAUTTI, SILVANA, Courtesy Assistant Professor of Psychiatry (2008), M.D.

MONTGOMERY, AMANDA SOLES, Courtesy Instructor of Medical Education (2008), M.S.W.

MOODY, TONI, Courtesy Assistant Professor of Pediatrics (2008), M.D.

MOORJANI, ANITA, Courtesy Assistant Professor of Pediatrics (2008), M.D.

MORAN, COLLEEN, Courtesy Assistant Professor of Pediatrics (2008), M.D.

MORRIS, LORI JEDLICA, Courtesy Research Associate Professor of Biology (2004), B.S., M.S. (College of William and Mary)

MOSER, J. DAVID, Courtesy Assistant Professor of Otolaryngology (2008), M.D.

MOSER, JANICE, Courtesy Assistant Professor of Medical Education (2008), Ph.D.

MUELLER, PAULA, Courtesy Associate Professor of Emergency (2008), M.D.

MUNRO, MARK, Courtesy Assistant Professor of Orthopaedic (2008), M.D.

NADEAU, JEANETTE A., Secondary Joint Assistant Professor of Biomolecular Science Center (2003), Ph.D. (University of California, Davis)

NADOLNY, RICHARD, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

NAGASUBRAMANIAN, R., Courtesy Assistant Professor of Pediatrics (2008), M.D.

NASER, SALEH, Associate Professor of Molecular Biology and Microbiology (1995), Ph.D. (New Mexico State University)

NATHANSON, IAN T., Courtesy Associate Professor of Pediatrics (2008), M.D.

NAZARIO, STEVEN, Courtesy Assistant Professor of Emergency Medicine (2008), M.D.

NEEL, JAMES, Courtesy Assistant Professor of Internal Medicine (2008), M.D.

NEMETHY, MARGARET, Clinical Faculty, College of Nursing (2002), (University of Florida)

NEWBERG, NEIL, Courtesy Assistant Professor of Medicine (2007),

NEWCOMBE, MALINDA, Courtesy Assistant Professor of Family Medicine (2008), M.D.

NICHOLS, JAMES, Courtesy Professor of Biology (2004), B.S., M.S., Ph.D. (Michigan State University)

NIKITIN, DMITRIY, Courtesy Assistant Professor of Surgery (2008), M.D.

OBRIEN, JOHN, Courtesy Associate Professor of Emergency (2008), M.D.

ODELL, DANIEL KEITH, Professor of Biology (1994), B.S., M.A., Ph.D. (University of California, Los Angeles)

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PALMER, KENNETH, Courtesy Assistant Professor of Urology (2008), M.D.
PAPA, JOHN, Courtesy Assistant Professor of Orthopaedic (2008), M.D.
PAPA, LINDA, Courtesy Associate Professor of Emergency (2008), M.D.
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PATEL, BADRISH JAYANTI, Courtesy Assistant Professor of Medicine - Med. Ed. (2007), M.D.
PATEL, TRUSHAR, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
PATEL, VIPUL, Courtesy Associate Professor of Urology (2007), M.D.
PATIL, SUNITA, Courtesy Assistant Professor of Pediatrics (2008), M.D.
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PATTISAPU, JOGI, Courtesy Assistant Professor of Molecular Biology and Microbiology (2003), M.D. (University of Texas Medical Branch)
PEALE, ROBERT E., Secondary Joint Professor of Optics & Photonics. (2004), B.A., M.S., Ph.D. (Cornell University)
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PEARSE, DAVID, Courtesy Assistant Professor of Radiology (2008), M.D.
PELLOSIE, JOHN, Associate Professor of Orthopaedic Surgery (2007), D.O.
PENNOCK, GREGORY, Courtesy Assistant Professor of Radiology (2008), M.D.
PERNICONE, PETER, Courtesy Assistant Professor of Pathology (2008), M.D.
PETERS, CALVIN, Courtesy Professor of Surgery (2008), M.D.
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POLANCO, ENRIQUE, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
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PONT, EDWIN, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
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PRICE, CHARLES, Courtesy Professor of Orthopaedic Surgery (2007),
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ROBERTS, VICTOR, Courtesy Professor of Internal Medicine (2008), M.D.
ROBERTSON, JOHN, Courtesy Assistant Professor of Surgery (2008), M.D.
ROBIN, JEFFREY, Courtesy Associate Professor of Ophthalmology (2008), M.D.
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RUBERTE, MARIO, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
RUBIN, JERRY, Courtesy Assistant Professor of Plastic Surgery (2008), M.D.
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SALAZAR, JORGE, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
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- SANG, NELSON**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SANTIAGO, JOSE**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SARACINO, ANTHONY**, Courtesy Assistant Professor of Urology (2008), M.D.
- SARRIERA, JOSE**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SCHECHTMANN, NORBERTO**, Courtesy Associate Professor of Internal Medicine (2008), M.D.
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- SCHENBART, LEE**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SCHMIDT, ANDREW**, Assistant Professor of Internal Medicine (2007), M.D.
- SCHNACKY, KIMBERLY**, Courtesy Assistant Professor of Medical Education (2008), BPS
- SCHNIER, MARTIN**, Courtesy Assistant Professor of Family Medicine (2008), D.O.
- SCHREIBER, JEANETTE CARPENTER**, Courtesy Assistant Professor of Medical Education (2008), J.D.
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- SEELMAN, ROBERT**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SEIFEIN, HANI**, Courtesy Assistant Professor of Medicine (2007),
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- SHAIKH, SAAD**, Courtesy Associate Professor of Ophthalmology, College of Medicine, Department of Medical Education (2007), M.D.
- SHARFMAN, MARC**, Courtesy Assistant Professor of Neurology (2008), M.D.
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- SHORT, DOUGLAS**, Courtesy Assistant Professor of Pediatrics (2008), M.D.
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- SITTLER, SCOTT**, Courtesy Associate Professor of Pathology (2008), M.D.
- SKEY, DAVID**, Courtesy Assistant Professor of Pediatrics (2008), M.D.
- SMITH, HOWARD**, Courtesy Associate Professor of Surgery (2008), M.D.
- SMITH JR., DAVID**, Courtesy Assistant Professor of Anesthesiology (2008), M.D.
- SMUCKLER, DAVID**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SNOW, CRAIG**, Assistant Professor of Medicine (2007), M.D.
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- SOKOL, DAWN M.**, Courtesy Associate Professor of Pediatrics (2008), M.D.
- SOLERO, RICHARD**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SOLOMAN, JAMES**, Courtesy Associate Professor of Dermatology - Med. Ed. (2007), M.D., Ph.D.
- SOLTIS, JOSEPH**, Courtesy Research Assistant Professor of Biology (2004), B.A., M.A., Ph.D. (University of California, Los Angeles)
- SORLOACIA-HICKMAN, NICOLETA**, Assistant Professor, Solar Energy and Secondary Joint Visiting Assistant Professor of NanoScience Technology (2008), Ph.D., M.S., (Clemson University)
- SOVRAN, PAUL**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SPECTOR, BRIAN**, Courtesy Assistant Professor of Otolaryngology (2008), M.D.
- SPENCER, ANGELA**, Courtesy Assistant Professor of Neurology (2008), M.D.
- SPIES, C. PETER**, Courtesy Assistant Professor of Internal Medicine (2008), M.D., Ph.D.
- ST. LOUIS, PHILLIP**, Courtesy Assistant Professor of Neurosurgery (2008), M.D.
- ST. MARY, EDWARD**, Assistant Professor of Orthopaedic Surgery (2007), M.D.
- STAMPER, MICHAEL**, Assistant Research Professor of Biology (2002), B.S., D.V.M. (Purdue University)
- STANLEY, GEORGE**, Courtesy Assistant Professor of Radiology (2008), M.D.
- STANLEY-BROWN, ODETT**, Courtesy Assistant Professor of Pediatrics (2008), M.D.
- STEELE, IAN**, Courtesy Assistant Professor of Medical Education (2008), M.D.
- STEIN, BRUCE**, Courtesy Assistant Professor of Internal Medicine, College of Medicine, Department of Medical Education (2007), M.D.
- STERN, JONATHAN S.**, Assistant Professor of Biology (2002), B.A., M.A., Ph.D. (Texas A&M)
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- STYNE, PHILIP**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SUAREZ, JUAN**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SUBRAMANIAN, HARIHARER**, Courtesy Assistant Professor of Surgery (2008), M.D.
- SUKTHANKAR, RAHAL**, Courtesy Research Scientist of Electrical Engineering & Computer Science (2007), Ph.D. (Carnegie Mellon University)
- SULLIVAN, DANIEL**, Assistant Professor of Otolaryngology (2007),
- SULLIVAN, JEROME L.**, Courtesy Associate Professor Biomolecular Science Center (2006), M.D. (University of Florida College of Medicine)
- SUMMY, JUSTIN M.**, Courtesy Assistant Professor (2008), Ph.D.
- SUNTER, WILLIAM**, Courtesy Assistant Professor of Neurology (2008), M.D.
- SWAIN, THOMAS**, Courtesy Assistant Professor of Internal Medicine (2008), M.D.
- SWANA, HUBERT**, Courtesy Assistant Professor of Pediatric Urology (2008), M.D.
- SWEENEY, PAUL D.**, Professor of Psychology (1999), M.S., Ph.D. (Indiana University)
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- TAGGART, JOHN**, Courtesy Assistant Professor of Otolaryngology (2008), M.D.
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- TAUSSIG, ANDREW**, Assistant Professor of Internal Medicine (2007), M.D.

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TRUITT, TIMOTHY, Assistant Professor of Internal Medicine (2007), M.D.

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USMANI, SEEMI, Courtesy Instructor of Pathology (2008), MBBS

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VICARI, RALPH, Associate Professor of Internal Medicine (2007), M.D.

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VINARSKY, SIMON, Assistant Professor of Internal Medicine (2007), M.D.

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WALLIS-CRESPO, MARIA, Courtesy Assistant Professor of Pathology (2008), M.D.

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HALL, RHONDA C., Director, Student Outreach Programs (1993), B.A., M.A. (University of Central Florida)

HALL, THOMAS, Director, Alcohol & Other Drug Programming (1991), B.S., M.S. (Florida State University)

HALPIN, SUZANNE M., Director, Student Union (1998), B.S. (Bentley College)

HARMS, ALFRED G., Vice President, Strategic Planning and Initiatives and Special Assistant to the President (2005), B.S., M.S. (Texas A&M University)

HARRISON, DAVID, Vice Provost, UCF Regional Campuses (2004), B.S., M.B.A., Ph.D. (Ohio State University)

HARTMAN, JOEL L., Vice Provost, Information Technologies and Resources (1995), B.S., M.S., Ed.D. (University of Central Florida)

HARTZLER, CHRISTI A., Director, Housing and Residence Life (1982), B.A., M.Ed. (University of Miami)

HELMS, TERENCE K., Associate Vice President, University Marketing (2005), B.S., M.B.A. (Rollins College)

HESTON, GRANT J., Assistant Vice President, News and Information (2007), B.S. (University of Florida)

HICKEY, TERRY L., Provost and Executive Vice President, and Professor of Psychology (2003), B.A., M.A., Ph.D. (University of Miami)

HITT, JOHN C., President of the University, Professor of Psychology (1992), B.A., M.S., Ph.D. (Tulane University)

HOLMES JR., ROBERT J., Vice President for Alumni Relations and Development and Chief Executive Officer, UCF Foundation. (1998), B.A., M.A. (University of Maine)

HOLSENBECK, DANIEL C., Vice President for University Relations, Senior Counsel to the President, and Director, Governmental Relations (1985), B.S., M.E.D., Ph.D. (Florida State University)

HOPP, CAROLYN, Director, Clinical Experiences (2003), B.A., M.A., Ph.D. (University of Central Florida)

JACKSON, WAYNE, Director, Multicultural Academic and Support Services (1981), B.A., M.A. (Dallas Theological Seminary)

JAFFE, LARRY, Director, Technologies and Facilities (2003), B.S., M.B.A., M.S., Ed.S. (Rutgers University)

JARRELL-COLE, MARGARET, Associate Vice President, Administration and Legal Counsel, UCF Foundation (2003), LL.M., J.D. (University of Florida)

JONES, TRACY R., Assistant Dean, Graduate Admissions, Student Services, and recruiting, College of Graduate Studies (1995), B.A., M.A. (University of Central Florida)

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KERNEK, LEE, Associate Vice President, Facilities and Safety (2007), B.M., M.P.A. (Harvard University)

KING, VALARIE G., Director, Diversity Initiatives (1989), B.A., M.Ed., Ph.D. (The American University, Washington, DC)

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LANEY, DAVID, Director, Business Affairs, UCF Regional Campuses (2008),

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MAJOR, ANTHONY, Director, Zora Neale Hurston Institute (2007), B.A., M.F.A. (New York University)

MARRETT, CAROLINE, Director, Toni Jennings Exceptional Education Institute (2007), B.S., M.A., Ph.D. (University of Central Florida)

MARSHALL, RUTH, Director, College of Medicine (1996), B.R.E., M.A., A.M.L.S., Ed.D. (Northern Illinois University)

MASON, GREGORY S., Director, Fraternity & Sorority Housing and Development (1990), B.A., M.S. (Indiana University)

McKINNEY, MARY, Executive Director, Student Financial Assistance (1971), B.S., M.P.A. (University of Central Florida)

MEALOR, DAVID, Associate Vice President and Director, UCF Heathrow and UCF Sanford/Lake Mary (1980), B.S., Ph.D. (University of Georgia)

MERCK, II, WILLIAM F., Vice President for Administration and Finance, and CFO (1996), B.B.A., M.B.A. (Georgia State University)

MESSINA, THOMAS, Associate Vice President for Alumni Relations and Executive Director, UCF Alumni Association (1992), B.S., M.B.A. (Embry Riddle Aeronautical University)

MILlicAN, CHARLES N., President Emeritus, Professor of Finance, and Special Assistant to the UCF Foundation Chief Executive Officer (1965), B.S., M.A., Ph.D. (University of Florida)

MINANA, KIM A., Assistant Vice President for Major Gifts and Director, Corporate and Foundation Relations (1995), B.A. (University of Central Florida)

MODIANOS, DOAN T., Associate Vice President, Academic Affairs (2006), Ph.D. (Texas Christian University)

MONROE, JUDITH E., Associate Vice President, University Support (1978), B.S., M.A. (University of Central Florida)

MORGAN, GARY, Student Leadership Programs (1982), B.S., M.A. (Bowling Green State University)

MORRISON-SHETLAR, ALISON, Vice Provost and Dean, Undergraduate Studies and Professor of Biology (2002), B.S., Ph.D. (Dundee College of Technology)

MULLALLY, KAY, Security Officer, Certified Facility Security Officer (Defense Security Service) (1986)

NEIGHBOR, J. EDWARD, Vice Provost, Academic Administrative Systems, and Professor of Physics (1987), B.S., M.S., Ph.D. (Massachusetts Institute of Technology)

NEWMAN, PETER, Director, Facilities Planning (1977), B.S. (Drexel University)

NORVELL, DAVID, Director, Sustainability and Energy (2008)

O'NEAL, THOMAS P., Associate Vice President, Research & Commercialization, and Director, UCF Technology Incubator and Secondary Joint Associate Professor of Industrial Engineering & Management Systems (1991), B.S.E.E., M.S., MBA, Ph.D. (University of Central Florida)

ORO, GLENNA, Assistant Vice President, Community Relations (1999), B.A. (University of Central Florida)

PATES, PATRICIA, Director, Research, Grants, and Evaluation (1996), B.A., M.A., EdS. (University of Louisville)

PAVLONNIS, DAVID L., Assistant Vice President and Director, SDES-Office of Budget & Personnel (1998), B.S., M.S. (University of Tennessee)

PAYNE, RICHARD S., Assistant Vice President, Operations & Television Services (2002), B.S., M.B.A. (University of Central Florida)

PERRY, ANTHONY, Director, Rosen College of Hospitality Management Student Life (2002), B.A., M.Ed., M.S. (University of Louisville)

PETERSON, ANGELA, Assistant Vice President, Admissions, Enrollment Services, and Marketing UCF Regional Campuses (2005), B.S., M.S. Ed. (Pittsburg State University)

PETKOV, ANNA, Director, Constituent Relations (2008)

PIETY, REBECCA, Director, University Testing Services (1998), B.A., M.A. (University of Central Florida)

PITTMAN, JOHN, Director, Financial Services (2000), B.S., M.S. (University of Central Florida)

POISEL, MARK ALLEN, Associate Vice President, Student Development and Enrollment Services (1999), B.S., M.S., Ed.S., Ed.D. (Florida State University)

POOLE, MAX C., Senior Associate Dean, College of Graduate Studies, and Associate Professor of Health Sciences (2005), Ph.D. (Medical College of Georgia)

POWELL, FRITZLAINE, Director, Partnership Development, Career Services (1999), B.A., M.Ed. (Pennsylvania State University)

PRIEST, DeLAINE, Associate Vice President, Student Development and Enrollment Services (1994), B.A., M.A. (University of Alabama-Birmingham)

PUSKAS, RAYMOND, Director, Purchasing (1988), B.A. (University of Connecticut)

QUIGLEY, MARTIN F., Director, Landscape and Natural Resources; Director, UCF Arboretum; Associate Professor of Biology (2004), B.A., MLA, Ph.D. (Louisiana State University)

RANGE, A. J., Assistant Vice President, Regional Campus Student Services (1994), B.S., M.Ed. (Florida A&M University)

RATTI, BARBARA B., Inspector General (1971), B.A., M.B.A., Ph.D. (University of Central Florida)

REA, PAMELA, Director, Student Disability Services (2000), B. A., M.Ed. (National-Louis University)

REDDICK, ALZO J., Director, Special Programs and Defense Transition Services (1990), B.S., M.E., Ed.D. (Nova University)

REED, HAL C., Assistant Vice President for Planned Giving (2000), B.A., J.D. (University of Kansas)

RITCHIE, JOE, Executive Director, First Year Experience (2000), B.A., M.A. (Indiana University of PA)

RIVERS, CECILIA H., UCF Leesburg, UCF Ocala, and UCF South Lake, UCF Regional Campuses (1981), B.A., M.A., Ed.D. (University of Central Florida)

ROBERTS, MARK A., Director, Human Resources (1986), B.A., M.A. (Central Michigan University)

SAWYER, CURTIS, Director, Business Services (2008)

SCHELL, JOHN F., Vice President and Chief of Staff, Office of the President, and Professor of English (1987), B.A., M.A., Ph.D. (Vanderbilt University)

SCHNEIDER, KIMBERLY, Director, Undergraduate Research (2007), B.S., Ph.D. (University of South Carolina)

SCHONS, EDWARD L., Director, University Economic Development, University Relations (2000), B.S. (Florida Southern College)

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SCIARRINO, JOSEPH, Director, Activity and Service Fee Business Office (1990), B.S.B.A. (University of Central Florida)

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SHIVER, LAUREN A., Assistant Vice President for Advancement Services (2002), A.A., B.B.A., M.B.A. (Valdosta State University)

SNOW, ROBERT, Director, Sophomore Center (1987), B.S., M.S. (Shippensburg University Pennsylvania)

SOILEAU, MARION J., Vice President, Research & Commercialization and Professor of Optics & EECS (1987), B.S., M.S., Ph.D. (University of Southern California)

STEBBINS, CONSUELO, Assistant Vice President for Internationalization (1987), B.A., M.A., Ph.D. (Florida State University)

STERN, MICHAEL J., Associate Dean, College of Graduate Studies, Professor of Biology (2007), B.S., Ph.D. (University of California at Berkeley)

STINARD, CHARLENE, Director, Transfer & Transition Services (1990), B.A., M.A. (Columbia University)

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UCF Administrative Officers and Staff

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TRIBBLE, KEITH, Director, Athletics and Executive Vice President of UCF Athletics Association (2006), B.S. (University of Florida)
TRUMAN, BARBARA, Director, Course Development and Web Services (1996), B.A., M.A. (University of Central Florida)
VAIDYANATHAN, PALLAVOOR N., Assistant Vice President for Research (1999), B.S., B.E., M.Sc., M.B.A. (University of Florida)

VAZQUEZ, JOSE, Interim Director, Environmental Health and Safety (1994), B.A., M.A. (University of Wyoming)
VITTES, M. ELLIOT, Associate Dean, Undergraduate Studies & Academic Services and Associate Professor of Political Science (1983), B.A., M.A., Ph.D. (University of Massachusetts)
VOELKER, AMY, Executive Director, University Audit (1990), B.S., M.P.A. (University of Central Florida)
WAGNER, PATRICK, Assistant Vice President and Director, Continuing Education (1997), B.S., M.S., Ph.D. (University of Wisconsin-Madison)
WATSON, JIMMY L., Assistant Vice President, Off Campus Student Services (1980), B.A., M.Ed., Ph.D. (Columbia Commonwealth University)

WATSON, MONTEL J., Interim Director, UCF Physical Plant (1994), B.A., M.B.A. (Loyola University of Chicago)
WEIDMAN, DIANA, Director, Student Services, Eastern Region (1984), B.S., M.A., Ed.D. (University of Central Florida)
WELCH, KERRY, Assistant Vice President and Director, Office of Student Involvement (2004), B.A., M.A., Ed.D. (University of Cincinnati)
WILKENING, JAMES, Director, Recreation and Wellness Center (1992), B.S.B.A., M.A.T. (University of Louisville)
WINTER, DEBRA Y., Director, Office of Graduate Financial Assistance and Publications (1996), B.A., M.A. (University of Central Florida)

WIRAG, J. ROBERT, Director, Health Services (2006), B.S., M.S., H.S.D. (Indiana University)
YANCKELLO, ROBERT, Director, Computer Services and Telecommunications (2004), B.S., M.Ed., (Pennsylvania State University)
YOUNG, DENISE L., Associate Vice President and Director UCF Cocoa and UCF Palm Bay (1990), B.A., M.S.W., Ph.D. (University of Michigan)



HONORARY DEGREES AWARDED

December 1969	Kurt H. Debus, Doctor of Engineering Science	May 1992	Robert Bryan, Doctor of Humane Letters
June 1970	William H. Dial, Doctor of Commercial Science	May 1993	Buell G. Duncan, Jr., Doctor of Commercial Science
March 1973	John W. Young, Doctor of Applied Sciences	May 1995	Norman R. Augustine, Doctor of Engineering Science
August 1974	Louis C. Murray, Doctor of Public Service	December 1995	Jesse Stone, Doctor of Humane Letters
August 1978	Fred C. Clayton, Doctor of Professional Engineering	April 1996	Nicolaas Bloembergen, Doctor of Science
June 1979	Richard F. Livingston, Doctor of Business Administration	December 1996	Richard A. Nunis, Doctor of Public Service
December 1979	Albert F. Hegenberger, Doctor of Engineering Science	May 1997	Maxwell C. King, Doctor of Public Service
June 1980	Lee R. Scherer, Doctor of Engineering Science	August 1998	Joe R. Lee, Doctor of Commercial Science
April 1982	Joseph Daniel Duffey, Doctor of Humane Letters	December 1998	Trevor Colbourn, Doctor of Humane Letters
December 1981	Thelma Vivian Jackson Dudley, Doctor of Humanities	December 1999	Linda W. Chapin, Doctor of Public Service
April 1982	Howard Phillips, Doctor of Public Service		Archbishop Desmond Tutu, Doctor of Humane Letters
July 1982	Gene Burns, Master of Letters	May 2000	President Oscar Arias, Doctor of Humane Letters
December 1982	Robert J. Whalen, Doctor of Engineering Science	May 2001	Reubin O'D. Askew, Doctor of Public Service
July 1983	Andrew Duda, Jr., Doctor of Agricultural Service	May 2002	Lotfi Zadeh, Doctor of Science
December 1984	Ferdinand Duda, Doctor of Agricultural Service	October 2002	Richard M. Karp, Doctor of Science
May 1985	John Duda, Doctor of Agricultural Service	December 2002	Joseph F. Traub, Doctor of Science
	Mary Jo Davis, Doctor of Public Service	December 2004	LeRoy T. Walker Sr., Doctor of Public Service
	William E. Davis, Doctor of Public Service	May 2005	James Bacchus, Doctor of Public Services
	Joseph A. Boyd, Doctor of Engineering Science	March 2006	Richard M. DeVos, Sr., Doctor of Commercial Science
	J. W. Hubler, Doctor of Engineering Science	December 2006	Nancy Burnett, Doctor of Commercial Science
	Charles Wadsworth, Doctor of Public Service	May 2007	Albert Burnett, Doctor of Commercial Science
	Allan E. Gotieb, Doctor of Laws	December 2008	Robert E. Kahn, Doctor of Science
	George J. Becker, Jr., Doctor of Public Service	May 2009	G. Vince Amico, Doctor of Science
	Jerry Collins, Doctor of Public Service		Lester Mandell, Doctor of Commercial Science
	D. Robert Graham, Doctor of Public Service		Harriet Elam-Thomas, Doctor of Public Service
	Walter O. Lowrie, Doctor of Engineering Science		Anibel Acevedo Vila, Doctor of Public Science
	William C. Schwartz, Doctor of Engineering Science		Rita Bornstein, Doctor of Humane Letters
March 1986	Isaac Bashevis Singer, Doctor of Letters		Charles Hard Townes, Doctor of Science
October 1988	Elie Wiesel, Doctor of Letters		Robert Vander Weide, Doctor of Commerce
December 1988	Sven Caspersen, Doctor of Engineering Science		Howard Lance, Doctor of Science
	John D. Holloway, Doctor of Public Service		
	Wolfgang-Detlef Petri, 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		
May 1990	Charles N. Millican, Doctor of Laws		
	Helen Harris Perlman, Doctor of Humane Letters		
	Thaddeus Seymour, Doctor of Letters		
May 1991	Roald Hoffman, 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: online procedure used to alter class schedules after registration. During this time, students can adjust their schedules through myUCF (<https://my.ucf.edu>) by adding 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 "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).

Breaking Catalog: loss of eligibility to follow graduation requirements in a specific catalog.

BSBS: Burnett School of Biomedical Sciences.

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 ten colleges at UCF: Arts and Humanities (CAH), Business Administration (CBA), Education (COE), Engineering and Computer Science (CECS), Health and Public Affairs (COHPA), Medicine (COM), Nursing (CON), Optics and Photonics (COP), The Burnett Honors College (TBHC), Rosen College of Hospitality Management (RHM), and Sciences (COS).

COM: College of Medicine.

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.

Degree Audit: A computerized degree audit lists courses completed toward major and degree requirements.

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 interactive distributed technologies.

Double Major: awarded when the student concurrently satisfies requirements for two majors.

Drop/Swap: a student may drop or swap a course(s) during the official Drop/Swap period. A dropped course will not appear on the student's per-manent 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.

E-mail: 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.

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, sign up for a KnightsMail e-mail, telephone number, and permanent/ mailing addresses; search for courses each term; register, drop/swap and add courses each term; withdraw from courses following the close of Late Registration

and Drop/Swap, print the "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.

SAT: Scholastic Assessment Test is an assessment used for University admission purposes.

Satisfactory Academic Progress: a general eligibility requirement for financial assistance. (see the "Student Financial Assistance" 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 Regional Campus System: UCF Cocoa, UCF Daytona Beach, UCF Heathrow, UCF Leesburg, UCF Ocala, UCF Osceola, UCF Palm Bay, UCF Sanford/Lake Mary, UCF South Lake, UCF South Orlando, UCF Valencia Osceola, and UCF Valencia West.

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: online at <http://registrar.ucf.edu/weg/>. 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 online 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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