

2003-2004 Undergraduate Catalog University Of Central Florida

4000 Central Florida Parkway, Orlando, Florida 32816

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- UCF Clermont
- UCF Cocoa
- UCF Daytona Beach
- UCF DeLand
- UCF Downtown
- UCF Kennedy Space Center
- UCF Kirkman Road
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University of Central Florida
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Orlando, Florida 32816-3222
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The UCF Creed

Integrity, scholarship, community, creativity and excellence are the core values that guide our conduct, performance, and decisions.

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



Office of the President

Dear UCF Students and Prospective Students:

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

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

Finally, I hope that you will take pride in your university. Like the Pegasus, our symbol, UCF is on the ascent. 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 115,000 alumni.

Cordially yours,

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

John C. Hitt
President

An Equal Opportunity and Affirmative Action Institution



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Director, Electrical Engineering Program	Zhihua Qu
Director, Information Technology Program	Gerald Marin
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Chair, Military Science (Army ROTC)	LTC John J. Ruzich

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Assistant Dean, Student Affairs	Melvin Rogers
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Chair, Criminal Justice and Legal Studies	Bernard J. McCarthy
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Chair, Molecular Biology and Microbiology	P. Kolattukudy
Interim Director, School of Nursing	Mary Lou Sole
Chair, Public Administration	Montgomery Van Wart
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Director, Student Support	Judith A. Sindlinger

Rosen School of Hospitality Management

Dean	Abraham Pizam
Associate Dean	Stephen LeBruto

CAMPUS SERVICES DIRECTORY

Campus Office/Service	Location	Telephone
A.A. Degree Application	Academic Services, MH 210	407-823-2691
Academic Advising - First Year Students		
Advising for Freshman Declared Majors	First Year Advising and Information Services, PH 116	407-823-3789
Advising for Multicultural Students	Multicultural Academic and Support Services, MH 145	407-823-2716
Advising for Student-Athletes	Academic Services for Student Athletes, WDSC 123B	407-823-5895
Advising for Undecided Students (AEP)	Academic Exploration Program, PH 104	407-823-5322
Advising for CAP or PEGASUS Students	Student Academic Resource Center, PH 113	407-823-5130
Academic Exploration Program	PH 104	407-823-5322
Academic Services for Student-Athletes	WDSC 123B	407-823-5895
Address Change	College Advising Office, Kiosks, Registrar, MH 161	407-823-3100
Admissions:		
Undergraduate	Undergraduate Admissions, MH 161	407-823-3000
Graduate	Graduate Studies, MH 230	407-823-2766
Alumni Association	Research Pavilion, PVL 301	407-882-1220
AMBULANCE		9-1-1
Annual Fund	Research Pavilion, PVL 140	407-249-4740
Area Campus Locations		
UCF Clermont	1250 N. Hancock Rd., Clermont, FL	352-536-2175
UCF Cocoa	1519 Clearlake Road, Cocoa, FL	321-632-0067
UCF Daytona Beach	1200 W. International Speedway Blvd., Daytona Beach, FL	386-255-7423
UCF Deland	1155 County Rd. 4139, Portable 104, Deland, FL	386-228-3090
UCF Downtown	36 West Pine St., Orlando, FL	407-856-6585
UCF Kennedy Space Center	Mail AMF, State Rd. 405, Bldg. M6-306, Kennedy Space Center, FL	321-459-0199
UCF Kirkman Rd.	1800 S. Kirkman Rd., Orlando FL	407-299-5000
		ext. 5500
UCF Melbourne	3865 N. Wickham Rd., Melbourne, FL	321-632-1111
		ext. 32492
UCF Ocala	3001 S.W. College Rd., Ocala, FL	352-854-2322
		ext. 1818
UCF Palm Bay	250 Community College Parkway, Palm Bay FL	321-632-1111
		ext. 23002
UCF Sanford/Lake Mary	100 Weldon Blvd., Bldg. R, Sanford, FL	407-328-2471
UCF South Orlando	7300 Lake Ellenor Drive, Orlando, FL	407-856-6585
Arena Box Office	Arena, Second Level	407-823-6006
Arena Information	Arena, Second Level	407-823-3070
Athletes, Academic Services for Student	WDSC Center 123B	407-823-5895
Athletics	WDSC Center 134A	407-823-2261
Books, Supplies, and Sundry Items	Bookstore, John T. Washington Center	407-823-2665
Burnett Honors College, The	The Burnett Honors College (TBHC)	407-823-2076
Campus Life	Student Union 304	407-823-2626
Campus Ministries, United	SRC 172	407-823-5336
Career Resource Center	Student Resource Center, SRC, 185	407-823-2361
Cashiers	MH 108	407-823-5924
Catalogs	Bookstore	407-823-2665
Certification for Enrollment	Registrar, MH 161	407-823-3100
Change of Major College Advising Office		
Check Cashing	Bookstore	407-823-2665
CLAST Information	SARC, PH 113	407-823-5130
	Counseling and Testing Center, SRC 203	407-823-5109
	Student Resource Center, SRC 203	407-823-2811
CLEP Counseling and Testing		
Computer Services and Telecommunications		
Computer Accounts	Computer Center II, CCII 102	407-823-2768
Cyberknight Center	Computer Center II, CCII 113	407-823-2924
Help Desk	Computer Center I, CCI 109	407-823-5117
Magruder Lab	Business Administration BA 148	407-823-5878
Main Lab East	Computer Center II, CCII 113	407-823-5290
Main Lab West	Computer Center II, CCII 104	407-823-2129
Telephone Services	Orlando Tec Center, 550	407-823-5100
Continuing Education	CMMS, 101	407-882-0260
Cooperative Education and Applied Learning, Center of	PH 208	407-823-2667
Counseling:		
Academic	Academic Advisors - See Academic Advising Section	
Career/Personnel	Counseling and Testing, SRC 203	407-823-2811
Employment	Career Resource Center SRC, Room 185	407-823-2361
Legal	SRC 155	407-823-2538
Religious	Campus Ministry, SRC 172	407-823-5336
Course Development and Web Services	Library, LIB 107	407-823-3718
Creative School for Children	CSC 24	407-823-2726
Credit by Examination	Department Chair	
Decals (Parking)	Parking Services, Libra Drive	407-823-5812
Directions Hotline		407-882-0909
Disability Services	Student Disability Services, SRC 132	407-823-2371
Dispute Resolution Services	SRC 153	407-823-3477
Distance Learning	Center for Distributed Learning, Research Pavilion 256	407-823-4910
EMERGENCY	Fire, Police, Ambulance	9-1-1
Equal Opportunity/Affirmative Action	EO/AA Office	407-823-2348
Evening and Weekend Student Services	MH 210	407-823-2691
Financial Aid	Student Financial Assistance, MH 120	407-823-2827
FIRE		9-1-1
First Year Advising and Information Services	PH 116	407-823-3789
Fraternities	Greek Affairs, SU 208	407-823-2824

Campus Services Directory

Campus Office/Service

Gordon Rule
 Grade Forgiveness
 Graduate Studies
 Graduation
 Greek Affairs
 Health Insurance, Student
 Housing (On Campus)
 Housing (Affiliated)
 Institutional Research
 Instructional Resources, Office of (OIR)
 International Students
 International Studies
 Intramural Sports
 LEAD Scholars Program
 Legal/Services, Student
 Library:
 Circulation
 Interlibrary Loan
 Library Loan
 Ask a Librarian
 Reference
 Periodicals/AV
 Medical Withdrawal
 Multicultural Academic and Support Services
 Multilingual/Multicultural Studies
 Name Change on Records
 Off-Campus Student Resource Center
 Ombuds Office
 Orientation Center
 Orlando-UCF Shakespeare Festival
 Parking Services/Decals
 Planned Giving
 Police Department
EMERGENCY
 Non-Emergency
 Crime Prevention
 Victim Services
 Readmission Application
 Recreation and Wellness
 Registration Helpline
 Safety Hazards/Concerns
 Scholarships
 Senior Citizen Audit Forms
 Sororities
 Speech and Hearing Clinic
 Student Academic Resource Center (SARC)
 Student Accounts
 Student Activities/Organizations
 Student Conduct
 Student Employment
 Student Financial Assistance
 Student Government Association
 Student Health Services
 Student Leadership Programs
 Student Outreach Programs
 Student Rights and Responsibilities
 Student Union
 Student Union Room Reservations
 Study Abroad
 Summer Credit Waiver
 Tests, Standardized
 Tickets, Athletic
 Tickets, Movies, and Attractions
 Transcripts:
 Academic (official)
 Academic (unofficial)
 Financial Aid
 Transfer Hours Sent to UCF
 Transfer Services
 Transient Student Forms/Applications
 Outgoing
 Incoming - SUS
 Incoming - Non-SUS
 Tutoring/Academic Support
 UCF Card
 UCF Foundation, Inc.
 UCF Virtual Campus
 Undergraduate Admissions
 University Honors Program
 University Relations
 Veterans' Benefits
 Wellness, Health Education
 Withdrawal from Courses or University

Location

Academic Services, MH 210
 Registrar, MH 161
 Graduate Studies, MH 230
 Registrar, MH 161
 Student Union 208
 Student Health Center, SHC
 Housing and Residence Life, HAB 101
 Knights Crossing/Knights Court
 MH 243
 Classroom Building 1, Room 203
 TR 543
 Research Pavilion, Suite 263
 Recreation and Wellness Center
 Student Union 208
 SRC 155

 Library 241
 Library 222

 Library 203
 Library 203
 Library 502
 MH 210
 MH 145
 Bldg. 81, 102
 Registrar, MH 161
 SRC 140
 MH 338F
 PH 218
 812 E. Rollins St. #100, Orlando
 Parking Services, South Parking Garage
 Research Pavilion, PVL 140
 Libra Drive

 Registrar, MH 161
 Recreation and Wellness Center
 Registrar, MH 161
 Environmental Health and Safety, PP 102
 Student Financial Assistance, MH 120
 Registrar, MH 161
 Greek Affairs, SU 208
 12424 Research Parkway
 PH 113
 MH 107
 Student Union 208
 SRC 155
 SRC, Room 185
 MH 120
 Student Union 214
 Student Health Center
 Student Union 208
 MH 351
 SRC 155
 Student Union
 Student Union 312
 Office of International Studies, Research Pavilion, Suite 263
 Academic Services, MH 210
 Counseling and Testing, SRC 203
 Wayne Densch Sports Center 116
 Student Government Ticket Center, SU Mall

 Registrar, MH 161
 UCF Kiosk (outside of MH 161)
 Student Financial Assistance, MH 120
 Undergraduate Admissions, MH 161
 PH 102

 Registrar, MH 161
 Registrar, MH 161
 Undergraduate Admissions, MH 161
 SARC, PC113
 John T. Washington Center, Rm 104
 Research Pavilion, PVL 140
 Center for Distributed Learning, Research Pavilion 256
 MH 161
 Burnett Honors College (BHC)
 MH 338
 Veterans' Affairs, MH 149
 Recreation and Wellness Center
 Registrar, MH 161 or POLARIS (<https://connect.ucf.edu>)

Telephone

407-823-2691
 407-823-3100
 407-823-2766
 407-823-2842
 407-823-2824
 407-823-1087
 407-823-4663
 407-362-5138
 407-823-5061
 407-823-2571
 407-823-2337
 407-882-2300
 407-823-2408
 407-823-2223
 407-823-2538

 407-823-2580
 407-823-2383
 407-823-2756
 407-823-2562
 407-823-5880
 407-823-3017
 407-823-2691
 407-823-2716
 407-823-5515
 407-823-3100
 407-823-6505
 407-823-6440
 407-823-5105
 407-447-1700
 407-823-5812
 407-882-1220

9-1-1
 407-823-5555
 407-823-2165
 407-823-6069
 407-823-3100
 407-823-2408
 407-823-3533
 407-823-5323
 407-823-2827
 407-823-3100
 407-823-2824
 407-249-4770
 407-823-5130
 407-823-2433
 407-823-6471
 407-823-2851
 407-823-2361
 407-823-2827
 407-823-2191
 407-823-2701
 407-882-0152
 407-823-5580
 407-823-6960
 407-823-0001
 407-823-3677
 407-882-2300
 407-823-2691
 407-823-5109
 407-823-GOLD
 407-823-2060

 407-823-3100
 407-823-2827
 407-823-3000
 407-823-2231

 407-823-3100
 407-823-3100
 407-823-3000
 407-823-5130
 407-823-2100
 407-882-1220
 407-823-4910
 407-823-3000
 407-823-3449
 407-823-2502
 407-823-2707
 407-823-5841
 407-823-3100

2003 - 2004 FALL - SPRING ACADEMIC CALENDARS

	Fall 2003	Spring 2004
Application deadline for International students	May 1	Aug. 1
Application deadline for all undergraduate applicants and transfers	May 1	Nov. 1
Application deadlines for readmission	July 15	Nov. 14
Registration and Add/Drop ¹	April 7-Aug. 22	Oct. 27-Jan. 4
Graduation Application due in college advising office	July 28	Dec. 5
Residence halls open (11:00 a.m.)	Aug. 22	Jan. 2
Registration time for State Employees, UCF Employees, Senior Citizens, Non-degree, Transients, STEP and Audits (begins 3:30 p.m.)	Aug. 22	Jan. 2
Classes begin	Aug. 25	Jan. 5
Late Registration ² and Add/Drop ¹	Aug. 25-29	Jan. 5-9
Last day for full refund ¹	Aug. 29	Jan. 9
Grade Forgiveness deadline ¹	Aug. 29	Jan. 9
Last day to mail payment (postmarked)	Sep. 5	Jan. 16
Payment Deadline ²	Sep. 6	Jan. 17
Withdrawal deadline ¹	Oct. 17	Feb. 27
VA deferral payment deadline	Nov. 21	April 2
Classes end; last day to remove incomplete ³	Dec. 5	April 19
Final Examination Period	Dec. 6-12	April 20-26
Residence halls close (noon)	Dec. 13	April 27
Commencement	Dec. 15-16	April 30-May 1
Grades due in Registrar's Office	Dec. 17	April 29
Grades Available on POLARIS (begins 9:00 a.m.)	Dec. 18	April 30

NOTE: Dates are subject to change. Consult the *Schedule Web Guide* and online Academic Calendar (www.ucf.edu/toplinks/academic_calendar.htm) for information.

All undergraduate degree-seeking students are **required** to attend Orientation **prior** to enrollment. 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 last day

² \$100 fee applies to students who have not previously registered or paid fees by the due date

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."

2003-04 University Holidays and Special Dates

Labor Day Holiday	September 1, 2003
Homecoming Week*	October 20-25, 2003
Veteran's Day Holiday	November 11, 2003
Thanksgiving Holiday	November 27-30, 2003
Martin Luther King Jr. Holiday	January 19, 2004
Spring Break - Holiday	March 8-13, 2004
Founder's Day Honors Convocation*	April 7, 2004
Memorial Day Holiday	May 31, 2004
Independence Day Holiday	July 5, 2004

*Classes will be held

SUMMER 2004 ACADEMIC CALENDAR

Summer 2004	Session A	Session B	Session C	Session D
Application deadline for International students	March 1	March 1	March 1	March 1
Application deadline for all undergraduate applicants and transfers	March 1	March 1	March 1	March 1
Application deadlines for readmission	April 15	April 15	April 15	April 15
Registration and Add/Drop ¹	Mar 15 - May 9	Mar 15 - May 14 ² May 15 - June 20 ²	Mar 15 - May 9	Mar 15 - May 9
Graduation Application due in college advising office	April 19	April 19	April 19	April 19
Residence halls open	TBA	TBA	TBA	TBA
Registration time for State Employees, UCF Employees, Senior Citizens, Non-degree, Transients, STEP and Audits (begins 3:30 p.m.)	May 7	June 18	May 7	May 7
Classes begin	May 10	June 21	May 10	May 10
Late Registration and Add/Drop ¹	May 10-14	June 21-25	May 10-14	May 10-14
Fees due ³ ; Last day for full refund ¹	May 4	May 14/June 25	May 4	May 4
Grade Forgiveness deadline ¹	May 4	June 25	May 4	May 14
Withdrawal deadline ¹	May 28	July 9	June 18	June 9
VA deferral payment deadline	July 16	July 16	July 16	July 16
CLAST Test	June 5	June 5	June 5	June 5
Classes end; last day to remove incomplete ⁴	June 18	July 30	July 30	July 9
Final Examination Period	June 18	July 30	July 30	July 9
Residence halls close (noon)	June 19	July 31	July 31	July 10
Grades due in Registrar's Office	June 23	August 4	August 4	July 14
Grades Available on POLARIS (begins 9:00 a.m.)	June 24	August 5	August 5	July 15
Commencement	July 31	July 31	July 31	July 31

Summer 2004 University Holidays and Special Dates

Memorial Day Holiday	May 31, 2004
Independence Day Holiday	July 5, 2004

NOTE: Dates are subject to change. Consult the *Schedule Web Guide* and online Academic Calendar (www.ucf.edu/toplinks/academic_calendar.htm) for information.

All undergraduate degree-seeking students are **required** to attend Orientation **prior** to enrollment. 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 last day

² Summer B payment deadline for all students who register 3/15- 5/14 / Summer B payment deadline for all students who register 5/15 - 6/25

³ \$100 fee applies to students who have not previously registered or paid 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."

UNIVERSITY NOTICES

Administrative Procedures Act Policy Statement

The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this *Undergraduate Catalog*. The *Undergraduate Catalog* is published once a year and cannot always reflect new and modified regulations. Statements in this *Undergraduate Catalog* may not be regarded in the nature of binding obligations on the institution or the State of Florida. While every effort will be made to accommodate the curricular needs of students, limited resources may prevent the University from offering all required courses in each semester or in day and evening sections.

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

Sexual Harassment Policy

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

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

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

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

Drug-Free Workplace/Drug-Free Schools Policy Statement

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

Academic Behavior Standards

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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Plagiarism, whereby another's work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.

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

Student Use Of Technology

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

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

The University of Central Florida has developed one of the nation's most advanced campus technology environments, and all UCF students are provided free e-mail accounts and Internet access.

Students wishing to acquire a personal computer are strongly advised to consider a laptop equipped with a wireless networking card. Recommended configurations can be found on the University's Web site at <http://www.cstore.ucf.edu/store/standards.html>

Student Responsibility for University Communication

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

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

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

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

Students can update their contact information on-line at <https://connect.ucf.edu>

UNIVERSITY OF CENTRAL FLORIDA

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.

Mission Statement

The University of Central Florida is a major metropolitan research university whose mission is to deliver a comprehensive program of teaching, research, and service. It provides intellectual leadership through quality undergraduate and graduate programs. It proudly identifies with its geographic region while striving for national and international excellence in selected programs of teaching and research. It serves students who are diverse in age, ethnic, and racial identity, and socioeconomic background. It supports the cultural vitality of our region, serves as a major intellectual and creative resource, develops creative partnerships with public and private enterprise, and participates fully in the economic development of Florida.



UCF offers undergraduate education rooted in the arts and sciences, providing a broad liberal education while developing competence in fields of special interest. Unique aspects of UCF's approach are its commitment to educate students for a world in which cooperation is as important as competition; in which societal and environmental impacts of new developments are as important as their technical merits; and in which technology, the arts, sciences, humanities, and commerce work together to shape the future.

The complexity of modern society requires comprehensive graduate and professional programs. UCF provides advanced education that matches institutional strengths with evolving regional, state, national, and international needs. It supports these advanced programs by recruiting excellent students, faculty, and staff and by supplying the infrastructure that enables these programs to achieve national prominence.

Basic and applied research, as well as creative activity, are integral parts of a quality education. UCF faculty members are scholar-teachers. As such, they create new knowledge, new points of view, and new means of expression in a broad range of academic, professional, and socially significant areas. Their creativity fosters innovation as they convey their results, methods, values, and expressions to students, colleagues, and the public.

UCF works actively to build partnerships that promote development of Central Florida's economy through carefully targeted programs of graduate study and research. The I-4 High-Technology

Corridor Council, whose goal is to attract, retain and expand high technology investment and jobs, is but the latest example of UCF's collaboration with partners from industry, state and local government, and higher education.

Service to its community is an important extension of the metropolitan mission of the University. Public service is prominent at UCF, with the University developing partnerships with the community to enrich the educational, artistic, cultural, economic, and professional lives of those it serves in Central Florida and beyond.

Education is more than classroom experience. UCF students are involved in cooperative research and participate in artistic, social, cultural, political, and athletic activities. UCF provides academic diversity by bringing to its campus national and international leaders who expose students and the community to a wide range of views and issues. UCF achieves cultural diversity by using its multi-campus facilities to serve a diverse population of traditional and non-tradition-

al students from various races, cultures, and nationalities.

UCF is committed to the free expression of ideas, the equality of all people, and the dignity of the individual.

Accreditation

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

College/Discipline Arts and Sciences	Accrediting Body
Chemistry	American Chemical Society (ACS)
Music	National Association of Schools of Music (NASM)
Business Administration (all disciplines)	The International Association for Management Education (AACSB)
Education (all disciplines)	State Accreditation-Florida Department of Education; National Council for Accreditation of Teacher Education (NCATE)
Engineering and Computer Science Aerospace, Civil, Computer, Electrical, Environmental, Industrial, and Mechanical Eng	Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET) 111 Market Place, #1050 Baltimore, MD 21202-4012 Telephone: 410-347-7700 Fax: 410-625-2238
Computer Science	Computing Accreditation Commission (CAC) of ABET
Engineering Technology (Electrical Engineering Technology and Engineering Technology)	Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET) 111 Market Place, #1050 Baltimore, MD 21202-4012 Telephone: 410-347-7700 Fax: 410-625-2238
Health and Public Affairs	
Athletic Training	Joint Review Committee on Educational Programs in Athletic Training (JRC-AT) in conjunction with the Commission on Accreditation of Allied Health Education Programs
Cardiopulmonary Science	Committee on Accreditation for Respiratory Care in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP)
Health Information Management	American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP)
Medical Laboratory Sciences	National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
Nursing	American Association of Colleges of Nursing/ Commission on Collegiate Nursing Education (CCNE), National League for Nursing Accrediting Commission (NLNAC), Florida Board of Nursing
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)

UCF is listed in *Transfer Credit Practices on Designated Educational*



Institutions with the highest level of credit acceptability. This handbook is published by the American Association of Collegiate Registrars and Admission Officers, and lists the acceptability of transfer credits based upon the reporting institutions in the states, commonwealths, territories, and selected international institutions.

The University

Founded in 1963, the University of Central Florida is one of the fastest growing metropolitan research universities in the country. As central Florida's higher-education partner, UCF plays a major role in the region's fast-paced growth through its community and corporate partnerships, its research programs, and the talents of its 115,000 alumni, nearly 40,000 students and 5,408 faculty and staff. The 1,415-acre Orlando main campus contains state-of-the-art wireless classrooms and modern student facilities. All UCF students have access to the Internet. The University has been recognized nationally as one of the most "wired" campuses in the nation, and offers a growing on-line distributed learning program. More than 268 web courses are offered, with an enrollment of more than 13,000. UCF offers 79 bachelor's degrees, 62 master's degrees, and 21 Ph.D. degrees, as well as 82 graduate certificate programs.

UCF today is known locally as the university that is "Under Construction Forever," building new programs and facilities, with equal thought and determination, that are setting new standards for learning and teaching environments and opportunities. Major construction projects totaling nearly \$200 million, underway or recently completed, include the Academic Village Residence Complex; an addition to the Biology Science Building; Health and Public Affairs II; Business Administration II; the four-story UCF Academy for Teaching, Learning and Leadership, the Wayne Densch Sports Center; and the 84,500 square foot Recreation Center. Engineering II added significant facilities to the University's world-renowned engineering program: a 107,000-square-foot, high-tech wireless facility featuring the 5,000-square-foot Harris Corporation Computer Laboratory; and two three-story laboratories for simulation and structures. The Rosen School for Hospitality Management, currently under construction, is a 92,000-square-foot building/campus complete with 22 classrooms, working kitchens and computer laboratory, dining room and a 400-seat performance theatre and auditorium, located on a 20-acre site in the heart of Central Florida's tourist corridor.



The UCF main campus is located 13 miles east of the city of Orlando, 45 miles from the Atlantic Ocean and Cape Kennedy, and 100 miles from Tampa and the Gulf of Mexico. The area boasts world-level shopping and dining, lakes, golf courses, jogging trails, nature preserves and parks.

Online@UCF, The Virtual Campus

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

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

Online courses are identified in the online Class Schedule Search (<https://connect.ucf.edu/>) by the Instruction Mode found on the class detail panel for each class. Web-related instruction modes are

ENHANCED WITH MEDIA/E-MAIL (E): These courses are recognized to be enhanced with the World Wide Web or other electronic media-based materials. These courses do not reduce seat time.

MIXED-MODE/REDUCED SEAT TIME (M): These courses require electronic media-based instruction that substitutes for some classroom time (reduced seat time). Students must have access to the Internet, a web browser such as Internet Explorer, ability to use e-mail, and basic computer skills such as word processing.

WORLD WIDE WEB (W): These courses are delivered entirely over the Internet. Students must have access to the Internet, a web browser such as Internet Explorer, ability to use e-mail, and basic

computer skills such as word processing.

Students who plan to enroll in any course with a web component must have access to the Internet, a web browser such as Internet Explorer, basic web-browsing knowledge, ability to use e-mail, and basic computer skills such as word processing. Refer to the Learning Online website (<http://reach.ucf.edu/~coursdev/learning/>) for additional information.

Center for Distributed Learning

Assistant Vice-President and Director: Steven E. Sorg;
sorg@mail.ucf.edu; 407-823-4910

UCF's virtual campus is supported and facilitated by the Center for Distributed Learning. The Center's mission is to provide support to students, faculty, and staff in the development and planning of distributed learning courses and programs. The Center serves as a clearinghouse for processes and resources, providing planning and marketing support for off-campus and distributed learning credit programs. The Center also coordinates the University's standards and accreditation changes resulting from web-based instruction.

UCF Area Campuses

Academic programs are not only offered on the Orlando campus; the University of Central Florida offers a number of programs through the UCF Area Campus System. Strategically located within an 80-mile radius of the UCF Orlando campus, the 21 non-residential system partners with six Florida community colleges, fostering seamless and convenient advancement from completion of an AA and limited AS degrees to upper-level division work on a baccalaureate degree. Available programs include 28 Bachelor's programs, 27 minors and certificates, 17 master's degrees, 11 Graduate Certificates, and 1 Doctoral program offered throughout the area campus system. Each of the UCF Colleges is represented within the system. With close proximity to Orlando, resources are available at UCF and the UCF Area Campuses, such as admissions, registration, financial aid, advising, student clubs and organizations, disability services, veteran's affairs, "Smart Classrooms," libraries, computer labs, and more.

The UCF Area Campus System serves an 11-county service area, which includes Brevard, Citrus, Flagler, Lake, Levy, Marion, Osceola, Orange, Seminole, Sumter and Volusia Counties. UCF Area Campus locations are comprised of a system of campuses, centers and sites and provide a wide variety of learning styles and schedules, including web class availability. Full service campuses include several full-time resident faculty and staff, provide extensive student services, and offer full programs and courses on a continuous basis. Centers include full-time resident faculty and staff, offer full programs and courses on a regular basis, and may provide minimal student services. Instructional sites offer full programs and/or courses on a regular or irregular basis and may have minimal staff. For the most current information on any of the 21 UCF Area Campus locations, and to find the locations with directions, check the website at www.areacampuses.ucf.edu

Admissions, Registration and Advising personnel are available at UCF Clermont, UCF Cocoa, and UCF Daytona Beach. Times and dates for all courses are listed on-line prior to registration each term and all registration periods correspond to the UCF overall schedule. To get the current program listings, check www.areacampuses.ucf.edu/areaprograms.htm. Check www.areacampuses.ucf.edu/areaclasssschedules.html for the most current course listings for the upcoming semester.

UCF Area Campus System

Vice Provost, UCF Area Campuses
Director, Academic Programs
Chief Financial Officer
Associate Director, University Relations
Director of Library Services
Special Projects Director
Coordinator, Academic Programs
Instructional Facilities Scheduler

Michael J. Sweeney
William J. Wetherell
Charles D. McQuillen
Karen Jans
Mem Stahley
Judith Boyte
Jeanne Walker
Barbara Smith

Eastern Region:

UCF Daytona Beach (Full Service Campus)
1200 W. International Speedway Blvd.
Daytona Beach, FL 32114
UCF DeLand (Center)
UCF Deltona (Instructional Site)
UCF Flagler (Instructional Site)

University of Central Florida

UCF New Smyrna (Instructional Site)
For information: 386-254-4460

Eastern Region Director TBA
Eastern Region Associate Director David Laney
Assistant Director, Administrative Services Rachel Gregory
Assistant Director, Admissions, Registration, Records Darryl Hills
Assistant Director, Academic Support Services Keith Branham
Coordinator, Academic Support Services Leeann Davis
Director, Campus Life Diana Weidman
Associate Director, Information/Publication Services Joyce DeLoach
Coordinator, Telecommunications Kirk Henry
Coordinator, Ed Media/ITV Jason Mayer

Degree programs currently offered in the Eastern Region:

Undergraduate Degree Programs

College of Arts and Sciences; 386-254-4412

Digital Media
Liberal Studies
Political Science
Psychology
Social Science
Sociology

College of Business Administration; 386-254-4412

General Business Administration (A.A. to B.A., A.S. to B.S.)
Management
Marketing

College of Education; 386-254-4428

Early Childhood Education
Elementary Education
Exceptional Education
Social Science Education
Vocational Education (Web-based)

College of Engineering and Computer Science; 386-255-7423

Engineering (Partial/Video)

College of Health and Public Affairs; 386-254-4412

Criminal Justice
Health Sciences
Health Services Administration
Legal Studies
Nursing (RN-BSN); 386-254-4428

Undergraduate Minors and Certificates:

Anthropology in Multicultural Studies
Behavioral Forensics (Certificate)
Business (Non-business majors)
Criminal Justice
Digital Media (Certificate)
English – Technical Writing
Environmental Studies
Exceptional Education
Forensic Science
Gerontology
Health Sciences
Health Services Administration
History
Legal Studies
Marketing
Philosophy
Political Science
Political Science (Pre-law track)
Public Administration
Psychology
Religious Studies
Sociology
Social Science – Interdisciplinary
Theater (General)
Women's Studies (Minor & Certificate)

Graduate Degree Programs: 386-255-7423

Business Administration (MBA)
Criminal Justice
Educational Leadership
Educational Media (Web-based)
Elementary Education

Engineering (Video)
Exceptional Education
Health Services
Liberal Studies
Nursing (RN-MSN)
Psychology (M.A. Clinical)
Public Administration
Social Work (MSW)
School Counseling (Certification)
Vocational Education (Web-based)

Graduate Certificate Programs: 386-255-7423

Corrections Leadership
Domestic Violence
English (Writing Track)
English Professional Writing
ESOL Endorsement
Juvenile Justice Management
Public Administration

Doctoral Program

Educational Leadership

Southern Region

UCF Cocoa (Full Service Campus)

1519 Clearlake Rd.
Cocoa, FL 32922

UCF Kennedy Space Center (Center)

UCF Melbourne (Center)

UCF Palm Bay (Center)

For information: 321-632-0067

Associate Vice President, Southern Region Director James A. Drake
Southern Region Associate Director John Dietrich
Coordinator, UCF Palm Bay Robert Caldwell
Coordinator, UCF Kennedy Space Center Ali Rahrooh
Coordinator, Admissions, Registration, Records Deborah Bradford
Interim Director, Campus Life James C. Smith
Assistant Director for Marketing, University Relations Carolyn Burns
BCC/UCF Computer Laboratory Sue Sorensen
Coordinator, Ed Media/ITV John King
Coordinator, Library Services Allison King
Academic Support Services Veronika Corpuz,
Helen Stewart Dunham, Heather Harrison
Debbie Phillis, William T. Yates

Degree programs currently offered in the Southern Region:

Undergraduate Degree Programs

College of Arts and Sciences; 321-632-1111, Ext. 65545

History
Liberal Studies
Political Science
Psychology
Sociology

College of Business; 321-632-1111, Ext. 65592

General Business Administration (A.A. to B.A., A.S. to B.S.)
Management

College of Education; 321-632-1111, Ext. 65575

Early Childhood Education
Elementary Education
English Language Arts Education
Exceptional Education
Social Science Education
Vocational Education (Web-based)

College of Engineering and Computer Science;

321-632-1111, Ext. 65556
Engineering Technology-Operations
Information Systems Technology

College of Health and Public Affairs; 321-632-1111, Ext. 65586

Communicative Disorders
Criminal Justice
Health Services Administration
Legal Studies
Nursing, Generic BSN

Nursing, RN to BSN
Public Administration

Undergraduate Minors and Certificates

Anthropology in Multicultural Studies
Business (Non-business majors)
Communicative Disorders
Criminal Justice
Exceptional Education
Health Services Administration
History
Legal Studies
Organizational Communication
Political Science
Psychology
Public Administration
Religious Studies
Social Science - Interdisciplinary
Sociology
Women's Studies (Minor & Certificate)

Graduate Programs

Applied Sociology
Business Administration (MBA)
Criminal Justice
Health Services Administration
Educational Leadership
Engineering FEEDS/ITV
Elementary Education
Exceptional Education
Industrial Engineering and Management
Public Administration
Vocational Education (Web-based)

Graduate Certificates

Domestic Violence
ESOL Endorsement
Initial Teacher Preparation
Nonprofit Management
Pre-K Handicap Endorsement
Public Administration
TEFL Certificate

Doctoral Program:

Educational Leadership

Central Region

UCF Downtown (Center)

26 West Pine St.
Orlando, FL 32801

UCF Celebration (Instructional Site)

UCF Kirkman Rd (Center)

UCF Osceola (Instructional Site)

UCF South Orlando (Center)

For information: 407-317-7700

Assistant Vice-President, Central Region Director Cecelia H. Rivers
Central Region Associate Director Edgar Martinez

The Central Region provides students with the opportunity to enroll in selected courses leading to undergraduate (junior and senior level) and graduate degrees in a variety of disciplines within the colleges of Arts and Sciences, Business Administration, Health and Public Affairs, Education, and Engineering and Computer Science. For the most current listings, view the website at www.areacampuses.ucf.edu/areaprograms for academic programs or www.areacampuses.ucf.edu/areaclassschedules.html for class schedule listings.

Western Region

UCF Clermont (Full Service Campus)

1250 N. Hancock Rd.
Clermont, FL 34711

UCF Chiefland (Instructional Site)

UCF Lecanto (Instructional Site)

UCF Leesburg (Instructional Site)

UCF Ocala (Center)

UCF Sanford/Lake Mary (Center)

UCF Sumterville (Instructional Site)

For information: 352-536-2113

Western Region Director
Western Region Associate Director
Admissions /Registration Officer
Academic Support Services

David Mealor
Bernard Jensen
Tanya Armstrong
Ivy Johnson, Debbie Phillips
Selena Forrester

UCF Clermont

Undergraduate Programs

Criminal Justice
Early Childhood Education
Elementary Education
Liberal Studies
Psychology
Sports and Fitness

Graduate Programs

Educational Leadership
Exceptional Education

UCF Leesburg

Undergraduate Programs

Nursing RN-BSN

UCF Ocala

Undergraduate Programs

Full Programs in Elementary Education & Nursing (RN-BSN, Web-based)

UCF Ocala also provides students with the opportunity to enroll in selected courses leading to undergraduate (junior and senior level) Criminal Justice, Liberal Studies and Psychology Programs.

UCF Sanford/Lake Mary

Undergraduate Programs

Full Program in Elementary Education and Liberal Studies

UCF Sanford/Lake Mary also provides students with the opportunity to enroll in selected courses leading to undergraduate (junior and senior level) Criminal Justice and Psychology Programs.

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. UCF presently has ten fully-funded endowed chairs and two others fully pledged:

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:* David F. Scott, Jr.

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.

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.

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

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

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

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

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

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

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

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.

University Ombuds Office

The Office of the Ombuds Officer provides members of the University community assistance and advice regarding concerns related to the University. These services are available to every member of the University community: students, staff, faculty, and others. Any type of concern may be brought to the attention of this office: academic, financial, housing, consumer, work-related, or personal. The University Ombuds Officer is a neutral facilitator, and will listen to concerns, help individuals explore options, offer suggestion and advice, and assist in the resolution of the concern. Referral and direction to appropriate individuals and offices, and clarification of University policies and procedures are services of the office. All proceedings in individual cases will be held confidential by the Ombuds Officer unless otherwise authorized by the complainant, or otherwise required by applicable law, including without limitation, Chapter 119, Florida Statutes. The University Ombuds Office is located in Millican Hall, room 338F. Appointments may be made by calling 407-823-6440.

Office of Undergraduate Studies

Dean: John F. Schell; MH 311, 407-823-4197

This office supports the undergraduate mission of the University, assisting the curriculum development and review, co-curricular planning and programming, and the effectiveness of units and faculty in their effort to provide outstanding undergraduate education.

Academic Services

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

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

UCF Public Safety and Police

The UCF Police Department is a full-service law enforcement agency. The 40 certified police officers provide police services twenty-four hours a day, seven days a week. The **Patrol Division** (407-823-5283) patrols the campus on foot, marked patrol cars, and on marked motorcycles. They are supplemented by additional police officers, who patrol the campus on mountain bikes. The **Investigations Unit** (407-823-5980) consists of four detectives who investigate all unresolved criminal cases.

The **Crime Prevention Unit** (407-823-2165) presents crime prevention seminars for property protection and personal safety for the community. The Crime Prevention Unit also supervises the **Community-Oriented Policing** program (COP), which consists of two officers assigned to campus zones. These officers work closely with the faculty, staff, and students in a police/ community partnership to reduce crime concerns in their zones. Furthermore, the Crime Prevention Unit also hires and trains students for the **Student Escort Patrol Service** (SEPS, 407-823-2424), which is an evening escort service for all individuals on campus (Sunday through Thursday evenings, 7:00 p.m. to 1:00 a.m.). The **Victim Services Unit** (407-823-6332/6069) provides services for: 1) emotional support and practical assistance; 2) information and referrals; and 3) education. The **Parking Services Division** (407-823-5812) maintains campus parking and provides assistance to stranded motorists. For more information see their website at <http://parking.ucf.edu>

UCFPD publishes a complete brochure titled *Knight's Safety Guide*. The *Knight's Safety Guide* presents an overview of all police services and offers crime prevention safety tips and campus crime statistics in compliance with Florida Public Records Law and the Federal Crime Awareness and Security Act of 1990. The entire Safety Guide brochure can be found on the UCFPD website at <http://police.ucf.edu>, and is available upon request.

Information Technologies and Resources

Vice Provost: Joel L. Hartman; MH 350; Phone 407-823-6778
<http://reach.ucf.edu/~itr>

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

University Libraries

Director: Barry B. Baker; LR 512; 407-823-2564; <http://library.ucf.edu>

Associate Director for Administrative Services: Frank R. Allen; LR 512; 407-823-2564

Associate Director for Public Services: Margaret K. Scharf; LR 512; 407-823-2564

Librarians: Barbara J. Alderman, Ellen P. Anderson, Buenaventura B. Basco, Penny M. Beile, Linda K. Colding, Eda M. Correa, Michelle M. Foss, John R. "Rich" Gause, Jr., Donna R. Goda, Amy E. Gonzalez, Richard H. Harrison, Carole S. Hinshaw, Athena R. Hoepfner, Selma K. Jaskowski, Lyn S. Case, Elizabeth K. Killingsworth, Marcus D. Kilman, Allison O. King, Cynthia M. Kisby, Cheryl A. Mahan, Hal D. Mendelsohn, Kimberly K. Montgomery, Jeanne M. Piascik, Meredith C. Semones, Roger D. Simmons, Marilyn R. Snow, Peter Spyers-Duran II, Mem T. Stahley, Carla M. Summers, Linda J. Sutton, Terrie K. Sybolt, Rachel G. Viggiano, Jeannette A. Ward, Jack L. Webb, Milton T. Wolf, Ying Zhang.

The main University Library houses a collection of more than 1.4 million print volumes, including 11,900 current serial subscriptions. In addition to bound volumes, the Library owns approximately 2.3 million microforms and 35,000 media titles. UCF is a partial depository for both United States and Florida government publications. The Library is open approximately 103 hours per week, including evenings and weekends. Current hours are available on the web site at <http://library.ucf.edu/administration/calendar.htm> or by calling 407-823-2756.

More than 200 computer workstations are available for public use on all five floors of the University Library. Included in this total are 20 laptops equipped with wireless cards that may be checked out for use anywhere in the Library building. Patrons who have laptops with wireless cards also can bring their own computers to the Library and connect to the Library's electronic resources and to the Internet from anywhere in the building. The Library also has two classrooms outfitted with 41 computer workstations for hands-on instruction in the use of electronic resources.

WebLUIIS, the Library's web-base catalog, can be accessed from any public as well as home PC. WebLUIIS also offers a gateway to hundreds of electronic databases, the catalogs of other state university system libraries, and the community college system libraries.

For help and advice in the use of the Library and its materials, the Reference Desk is open during most library hours. Librarians are on duty for assistance with interpreting the online catalog (holdings and locations), as well as with electronic reference sources and other library collections. Librarians are on duty to assist in the use of the online catalog (WebLUIIS), electronic reference sources, and other library collections. Assistance also is available through the "Ask a Librarian" service, by telephone at 407-823-2562, or at <http://library.ucf.edu/ASK/>.

The Interlibrary Loan and Document Delivery Services Department (ILL) assists students in obtaining materials not owned by the Library. Most book loans and photocopied materials can be acquired free of charge within two weeks. Request forms are available on the ILL web site at <http://library.ucf.edu/ill>, or at the ILL Office (room 221). For more information, call 407-823-2383 during office hours, or visit the ILL web site.

Special services are provided for people with disabilities. By using WebLUIIS, students can determine the availability of books they need and telephone the Library to request that books be retrieved from the shelves and brought to them at the circulation desk. A Kurzweil reading machine is available in the Library for people with visual impairments; students can arrange for instruction in its use. Through the cooperation of the University's Office of Student Disability Services, the Library staff will aid disabled students in obtaining special equipment they may need to use Library resources.

The Curriculum Materials Center, a unit of the University Library, is located in the Education Building. The CMC provides representative K-12 educational curriculum materials for preview, review, analysis, and circulation. The facility serves primarily the students and faculty of the College of Education (COE); however, 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.

Additional library collections are available at the Brevard Community College/University of Central Florida Joint Use Library in Cocoa and the Daytona Beach Community College Library in Daytona Beach. At both locations, the University partners with the local community college to provide complete information services, including materials processing and checkout. Both locations have electronic access to LUIS and to University resources on the web. Courier and intercampus loan services make the main library's collections available to UCF students at all area campus sites. For more information see the web site at http://library.ucf.edu/branch_campuses/default.htm.

Computer Services and Telecommunications

Director: William H. Branch; CSB 305; 407-823-2711

Computer Services and Telecommunications provides central support for administrative data processing, academic computing support, telecommunications networks, e-mail, campus telephone services, training, user help, and microcomputer sales and support.

Academic computing is supported primarily through the following systems: Sun Enterprise 6800, V880, 3XXX systems, Novell LAN file servers, and other Internet and campus facilities. Four public access PC labs, available to all faculty and students, are located around campus. Two labs are in Computer Center II: Main Lab West

(CCII 104) and Main Lab East (CCII 113). The other labs are located in the following buildings: Classroom 1 (CL1 101) and Magruder lab in Business Administration (BA 148). UNIX equipment is available in CCII-113. Most labs are open seven days a week with extended hours. The CyberKnight Center is located in CCII to assist students with computer and internet needs.

Online access to registration, grades, and financial aid information services are available from POLARIS (<https://connect.ucf.edu/>) Campus kiosk workstations are available in the following buildings: Millican, Library, Business Administration, College of Health and Public Affairs, Computer Science, Colburn, Howard Phillips, Bookstore, Education, Communication, Visual Arts, Math/Physics, Biology, Chemistry, Engineering, CREOL, and Downtown, Daytona, and Cocoa Campuses. Additional information is available on-line at <http://www.it.ucf.edu/>. Computer accounts are provided to all students, faculty, and staff for access to e-mail, public computer labs, and the campus backbone network.

The University also operates a full service, on-campus computer store (Student Union) that provides the UCF community computer products and services that adhere to campus standards. The store is an authorized campus reseller for Dell, Apple, IBM, Microsoft, and other major brands. Training classes and computer equipment maintenance services are also available from the store.

Main campus telephone services are provided by the Teledata Services Department's Siemens PBX. Campus residence students have the option to subscribe to voicemail and access to the long distance carrier of their choice. AT&T is the primary long distance provider to the campus.

Office of Instructional Resources

Director: Ruth Marshall; Classroom Building 1, Room 203; 407-823-2571, Fax 407-823-2109; <http://www.oir.ucf.edu>

The Office of Instructional Resources (OIR) supports UCF administrators, faculty, and staff with multimedia design and production, digital media, webcasting, ISDN video conferencing, video streaming, video over IP, interactive video course delivery, video production, audio production, photography, graphics, and a full range of multimedia classroom support services. OIR manages UCF's interactive video network, which includes eight origination rooms on the main campus and sixteen receiving rooms at branch campus locations. OIR's facilities include the Digital Image Processing Lab (DIP), located in the Research Pavilion (Suite 169) in the Central Florida Research Park. In association with its community partners, DIP offers UCF faculty access to state-of-the-art digital imaging technologies including digital-image processing, digital document scanning, and CD-ROM production. OIR's Faculty Multimedia Center (CL1 202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR's Interactive Video Classroom (CL1 320) is used for videoconferencing and ITV course origination. The room also provides faculty with an excellent location for training in ITV production and delivery skills. OIR also supports more than 170 advanced multimedia classrooms and eight interactive video origination classrooms located throughout the campus. Multimedia equipment for classroom use may be checked out from Multimedia Classroom Support (CL1 215) 407-823-2574.

OIR provides UCF with a full array of distributed-learning delivery systems, including an interactive video network that serves eight rooms on the main campus; the Orlando Downtown Center; the branch campuses and centers at Cocoa, Daytona, UCF South Orlando, Palm Bay; Valencia Community College-West; Clermont; and other off-campus locations. OIR provides Ku and C-band satellite reception, cable television delivery on the main campus, ISDN (384k) and IP-based videoconference equipment and services.

Course Development and Web Services

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

Course Development and Web Services (CDWS) supports major institutional Web initiatives, including online learning (<http://reach.ucf.edu>), UCF's main web site (<http://www.ucf.edu>), web portal applications, and special projects such as the Online@UCF Website (<http://online.ucf.edu>), the AskUCF online Q and A service (<http://ask.ucf.edu>), and the UCF virtual tour (<http://www.ucf.edu/vtour>). CDWS brings to these projects extensive production resources and staff skilled in project management, instructional design, digital media, video, new media, and Web programming.

CDWS also provides professional development activities for faculty and staff. Examples include IDL6543 (<http://reach.ucf.edu/~idl6543>), ADL5000 (<http://reach.ucf.edu/~adl5000>), WebCT Academy (<http://reach.ucf.edu/~webct411>), and the Web Development Academy (<http://reach.ucf.edu/~webdev>).

CDWS provides student support through the Learning Online Web site (<http://reach.ucf.edu/~learn>), and by producing the Pegasus Disc CD-ROM, which is distributed to all incoming students and faculty (<http://reach.ucf.edu/~coursedev/cdrom/pegasus.htm>). Students also play an active role in supporting CDWS projects. A student Web programming team called the Techrangers builds online courses and other Web projects and also conducts Web-related research and development activities.

CDWS also develops systems and standards to support campus Web Development, and schedules events of interest to the campus Web Community.

Intercollegiate Athletics

Programs in Intercollegiate Athletics are coordinated by athletics department coaches and staff under the general supervision of the Director of Athletics. The University of Central Florida is a member of the National Collegiate Athletic Association (NCAA), Division I, competes in the Atlantic Sun Conference, and competes in the Mid-American Conference for football. Intercollegiate athletics contests are governed by the rules of play published by NCAA and all established eligibility standards are observed. UCF's current intercollegiate sports for men include baseball, basketball, cross country, golf, football, soccer, and 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, either complete or graduate from their programs. The freshman retention rate for Fall 2001 students is 81.0 percent. The information is public and available for review in the UCF Library.

UCF Arena

The UCF Arena is an indoor, multipurpose facility that opened in August of 1991. The Arena is host to a variety of campus events, including all commencement ceremonies, men's and women's basketball games, volleyball games, concerts, lectures, and other sporting and entertainment events. Please visit our website at www.arena.ucf.edu. For event or rental information, call 407-823-3070.

University Bookstore

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

Transit Services

Through joint efforts of UCF, LYNX and the University/Alafaya Corridor Transportation Association (UACTA), UCF students, faculty, and staff have a number of transit options. Three LYNX bus routes serve UCF from Oviedo, Downtown Orlando, and Valencia Community College East campus. Through the use of these routes, commuters can connect to most anywhere in Greater Orlando. These buses normally operate at 30 to 60 minute intervals. The cost to ride LYNX is \$1.25 per ride. Special passes are available at discounted rates. Route maps may be obtained at the Millican Hall Information Booth or by calling UACTA at 407-658-8492, or LYNX at 407-841-8240.

The Student Transportation Shuttle Service provides transit needs for student communities, as well as traveling through the Research Park area. This service consists of fixed routes operating on 15-minute intervals. All students, faculty, and staff are eligible to ride the shuttle at no per-trip cost. Route maps may be obtained through the Parking Services web page at <http://parking.ucf.edu>.

The Orlando-UCF Shakespeare Festival

The Orlando-UCF Shakespeare Festival is Central Florida's professional classical theater, presenting professional artists in a variety of world-class plays. The Festival provides a year-round calendar of entertainment and educational programs. An Equity company, the Festival presents a fall season of plays at the John and Rita Lowndes Shakespeare Center and the spring repertory season at the Walt Disney Amphitheater in Lake Eola Park.

In its eleventh season, the Festival has achieved a position of national recognition, attracting artists from around the world. The festival has been featured in such national publications as *Southern Living*, *Theater Week*, *Backstage*, and *Southern Theater*. Among the Festival's educational programs are: "The Young Company," "Shakespeare Alive!," and "Shakesperience." Internships and independent studies with the Festival for UCF students and alumni are available in all departments. For more information, contact Artistic Director Jim Helsingier, 812 East Rollins #100, Orlando, Florida 32803, 407-893-4600, Fax 407-893-5643.

The UCF Alumni Association

The University of Central Florida Alumni Association was developed to maintain awareness and support of the University by its alumni. While alumni comprise the core member group, membership in the UCF Alumni Association is available for all phases of UCF life. For children up to age 12, we have the Junior Jousting Program. UCF students can join 4EVER KNIGHTS, offering them valuable interaction with alumni. For parents of UCF students, we offer a Parent Membership to the Alumni Association.

Membership in one of the UCF Alumni Association programs provides many benefits, including:

- **More than 60 money-saving discounts**, from buying UCF logo merchandise to saving money at thousands of hotels and on car rentals across the country.
- **Social and networking opportunities** at Networking Knights, AlumKnight Outs, cultural events, pre-game events, KnightFest, community service projects, travel getaways and road trips.
- **Career services** through a partnership with iplacement, which offers a career search program that gives alumni easy, 24-hour access to timely employment information online.
- **Members-only access** and discounts to several UCF facilities such as the new Recreation and Wellness Center, borrowing privileges at the UCF Library and room rental savings at the UCF Student Union (great for weddings or meetings).
- **Timely information** via *Pegasus*, the award-winning alumni magazine (mailed 6 times per year), the *Inside Scoop* e-newsletter and access to members-only areas of www.ucfalumni.com our web site.

The Alumni Association offers many volunteer opportunities and awards more than \$40,000 in scholarships to eligible students every year. To join, or for more information, stop by the UCF Alumni Association located in the Research Pavilion, 12424 Research Parkway, Suite 301; 407-UCF-ALUM (823-2586); toll-free (800) 330-ALUM; or connect anytime at www.ucfalumni.com

UCF Foundation, Incorporated

The UCF Foundation, Incorporated is a non-profit, tax-exempt corporation directed by a 56 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 STUDENT DEVELOPMENT AND ENROLLMENT SERVICES



Division of Student Development and Enrollment Services

Vice President for Student Development and Enrollment Services:
Thomas Huddleston, Jr.; MH 282; 407-823-2226

Introduction

The Division of Student Development and Enrollment Services (SDES) is an integral part of the University of Central Florida. Reporting to the Provost, SDES is responsible for the administration and management of programs, services, facilities, and activities designed to support and complement the educational mission of the University while simultaneously improving the student's total collegiate experience.

The Vision of SDES is "Adding Value to the UCF Experience!" The Division is committed to its mission of building and strengthening student enrollment. This is achieved by providing an optimal student learning environment characterized by excellent customer service,

diversity, inclusiveness, partnerships and needed programs, activities, and facilities that add value to the UCF experience.

The division has three primary functions that include transition, support services and personal growth of students. The division administers programs involving orientation, advisement and academic exploration, registration and admissions, financial assistance, multicultural services, personal counseling, housing, health services, career and personal development, campus life facilities, recreation services, student activities and organizations, special student services, and a variety of academic development and retention programs.

Key values within the operation of the division include caring, commitment, collaboration, diversity, excellence, honesty, inclusiveness, innovation, integrity, loyalty, respect and trust.

The efforts of SDES to meet its mission and objectives will be measured by enrollment quality, student retention, customer satisfaction and student success. These primary outcomes will contribute to creating a competitive advantage for the individual.

Academic Development and Retention

Associate Vice President: Maribeth Ehasz; MH 210; 407-823-2691

The Unit of Academic Development and Retention (ADR) enhances student retention through the collaborative delivery of operationally excellent services, information, data, and technology that facilitate enrollment, registration, transition, career and major exploration, academic success, personal development, and career opportunities for successful progression through graduation. For additional information on all of our offices, visit ADR's website at <http://sdes.ucf.edu/adr>.

Academic Services for Student-Athletes (ASSA)

Director: Karl P. Mooney; WDS Center 123B; 407-823-5895

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 and tutorial services;
- Leading student-athletes in their personal development through participation in the NCAA CHAMPS Life-Skills Program;
- Directing students to utilize the full spectrum of other University services; and
- Preparing student-athletes in their career planning and development.

For more information, please visit the ASSA website at <http://pegasus.cc.ucf.edu/~assa>.

First Year Transitions (FYT)

Assistant Vice President: Mark Allen Poisel; PH 216; 407-823-2137

The Unit of First Year Transitions provides seamless articulation and necessary support to motivate and encourage first year students to more effectively transition into their new UCF environment while minimizing threats to their success. Through outreach, collaboration, and coordination, this unit coordinates the offices of First Year Advising and Exploration, Orientation Services, and Transfer Services. A strong common component of First Year Transitions is the Academic Exploration Program for undeclared students and major changers. For more information, visit FYT's website at <http://fyt.sdes.ucf.edu>.

Academic Exploration Program (AEP) 407-823-5322

The Academic Exploration Program has been developed to provide structured experiences to assist students in selecting a career and major. The program has several components including coordinated academic advising services from a first year advising office, the EXCITED online system, and activities through a program called Golden Opportunities Center offered by the Career Resource Center to those first year students who enter the University of Central Florida not having selected an academic major. For more information, visit AEP's website at <http://aep.sdes.ucf.edu>.

First Year Advising and Exploration (FYAE)

Director: Robert E. Snow, PH 116; 407-823-3789

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 who are 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) are provided focused advising support services to assist in the major selection process.

To fulfill this mission, the office focuses its efforts on providing proactive advising support, serving as a centralized source of academic information, conducting personalized advising and academic services, establishing early and regular communication, providing outreach advising activities for freshmen residing in both on- and off-campus facilities, and tracking the academic progress and success of its tar-

get student population. Each freshman is assigned to a specific academic advisor. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised and academically supported through this office. For further information, visit Phillips Hall room 116, or our website at <http://firstyear.sdes.ucf.edu>.

Orientation Services

Assistant Director: Joe Ritchie; PH 218; 407-823-5105

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

Transfer Services

Assistant Director: Charlene Stinard; PH 102; 407-823-2231

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

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

For more information, visit the Transfer Services Web site at <http://transfer.sdes.ucf.edu>.

Student Academic Resource Center (SARC)

Assistant Director: Amanda Murray; PH 113; 407-823-5130

The Student Academic Resource Center (SARC) provides high-quality programs that enable UCF students to achieve their academic goals. Some of these programs include: Supplemental Instruction, tutoring, academic advising, and learning enhancement workshops.

The Supplemental Instruction (SI) program focuses on providing assistance to students in historically difficult courses such as anatomy, biology, chemistry, economics, 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 for how to learn the subject matter.

Free peer tutoring is also available for many UCF subject areas (e.g., accounting, physics, statistics, chemistry, Spanish, economics, and biology, to name a few). In total, SARC provides individual and group tutoring for more than 36 courses.

Each semester, SARC also offers a series of academic workshops designed to address common student issues. Among these are test taking strategies, time management, reading effectiveness, and memory improvement. Additionally, preparatory workshops are offered for the math portions of the CLAST exam. Computer assisted learning programs also are available for the SAT, ACT, GRE, GMAT, and CLAST exams.

SARC's professional academic advisors provide support for students in the Pegasus Success Program and the College Achievement Program (CAP). A learning skills counselor also is available for students who need study skills advice or who wish to enhance their educational experience. For additional information, visit the Student Academic Resource Center website at <http://pegasus.cc.ucf.edu/~sarc>

University Testing Center (UTC)

Assistant Director: Amanda Murray; PH 107; 407-823-5109

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), the Grammar Proficiency Exam (GPE); and the Institutional Academic College Test (ACT) and College Level Examination Program (CLEP). It also administers the following national exams:

- Law School Admissions Test (LSAT)
- Medical College Admissions test (MCAT)
- Florida Teachers Certification Examination (FTCE)

For additional information, visit the following website www.sarc.sdes.ucf.edu/

Career Resource Center (CRC)

Director: Melanie Parker; SRC 185; 407-823-2361

The Career Resource Center (CRC) 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, an all-inclusive career library and state-of-the-art recruiting tools. These comprehensive services are designed to help first-year through graduate students manage their career planning issues, including:

- Choosing and confirming educational and career choices through career assessment tools, a 500+ volume career library, career counseling appointments, small groups, workshops, and special programs;
- Gaining career-related experience through an alumni mentoring and career shadowing program listings of internship opportunities, an annual Internship Fair, and the Lockheed Martin Work Experience Program, which provides over 200 students annually with technical, business, and engineering experience;
- Developing the skills necessary for an effective job search through job search skills and business etiquette workshops; library resources on resumes, cover letters, and interviewing; resume and cover letter critique; and a mock interview program; and
- Searching for full-time employment and connecting with employers through the GOLD Connection, the center's recruitment management system; the on-campus interviewing program; online job listings; eight annual job fairs; company presentations; and the resume referral system.

The CRC is open Monday through Friday. Walk-in advisors are available from 10:00 a.m. to 2:00 p.m. For more information, visit our website at <http://www.crc.ucf.edu>.

Counseling Center

Director: Robert Harman; SRC 203; 407-823-2811

The University of Central Florida Counseling Center is the only campus agency designated to provide psychological services to University enrolled students. The Center is composed of a professional staff of psychologists and mental health counselors who provide both a confidential atmosphere and a safe environment in which students may explore and resolve issues of concern. The Center maintains and assures confidentiality as provided by law. The Center is open Monday through Friday and operates on an appointment basis. The following counseling services are offered:

- Personal Counseling
- Career Counseling
- Couples/Conjoint Counseling
- Group Counseling

For additional information, visit the Counseling Center website at <http://pegasus.ucf.edu/~counstst/>.

National Consortium for Academics and Sports (NCAS)

Director: Suzi Katz; WDS Center 123; 407-823-5243

The mission of the National Consortium for Academics and Sports 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 in the Central Florida community. The NCAS reaches this mission by building partnerships between the University, local schools, community organizations, and other non-profit agencies that also are committed to serving the community. For additional information, visit the National Consortium for Academics and Sports website at www.ncasports.org

Registrar's Office

University Registrar: Dennis J. Dulniak; MH 161 407-823-3100

The Registrar's Office, with a commitment to quality service and leading edge technology, provides efficient registration, effectively meets student administrative needs, and ensures a complete enrollment process from registration through graduation. The office maintains the integrity of academic records and coordinates and enforces University policies and procedures campus-wide through cooperation, communication, and leadership. The Registrar's Office is responsible for management and publication of course offerings, the *Undergraduate Catalog*, *Schedule Web Guide* and the efficient utilization of classroom resources. For further information, visit our website at <http://registrar.ucf.edu>.

Administrative Support Services

Assistant Vice President: Sharon Ekern; MH 282; 407-823-3167

Student Government

Director: David L. Pavlounis; SU 214; 407-823-2191
website: <http://www.sga.ucf.edu>

Student Government's (SG) 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, Student Government also provides numerous services that affect student life. These services currently include computer labs, discount tickets to movie theaters and theme parks, free local calling on campus telephones, funding for legal services, recreational services and Campus Activities Board programming. Money allocated by Student Government for these services comes from activity and service fees that students pay during registration. Additionally, UCF clubs and organizations may receive funding for events, projects and travel to conventions. SG coordinates its efforts with the Florida Student Association in lobbying for students' rights on local, state and national government levels.

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

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

Assessment and Planning

Director: Ronald H. Atwell; MH 282; 407-823-2628

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 new employee orientation and the development of division-wide publications.

Florida Foundation for Future Scientists (FFFS)

Program Director: Nancy Besley; MH 282; 407-823-4347
website: <http://www.fffs.ucf.edu/>

The Florida Foundation for Future Scientists (FFFS) is a statewide, non-profit organization authorized by the 1957 Legislature of the State of Florida to discover scientific and technical talent in the schools of Florida and to encourage the pursuit of careers in science and engineering. FFFS provides many services including the State Science and Engineering Fair (SSEF) of Florida and the establishment of guidelines, rules and procedures for local, regional and statewide competitions. The FFFS is housed at UCF in Orlando. Major programs and operating expenses are financed by grants and contributions from federal agencies, the State Legislature, private industries, businesses, professional organizations, and individuals.

Division Of Student Development And Enrollment Services

Campus Life

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

The Campus Life unit develops partnerships to provide meaningful programs, quality services, and personal growth opportunities for students in learning environments. Campus Life promotes personal excellence, healthy lifestyles, leadership development, and community responsibility. Departments in Campus Life include: Student Leadership Programs (LEAD Scholars Program, Greek Affairs, Student Activities and Organizations, United Campus Ministries), Campus Life Operations (Student Union, Recreation and Wellness Center, and Intramural Sports), Student Rights and Responsibilities (Student Conduct, Dispute Resolution, Student Legal Services), Student Health Services, Housing, Residence Life, Affiliated Housing, and Off-Campus Student Services (Off-Campus Student Resource Center, Area Campuses).

Housing and Residence Life

Director: Christi Hartzler; HAB 101; 407-823-4663

Regularly enrolled single students paying registration fees for a minimum of nine semester hours may apply for assignment to University residential units. Approximately 3,800 students are housed in facilities located in four on-campus residential communities: Apollo Community, Libra Community, Lake Claire Courtyard Apartments, and the Academic Village. A variety of living options are available to residents. On a space-available basis, students may reside in one of the following: double-occupancy bedroom with shared bath, two double-occupancy bedrooms with shared bath in a suite-style arrangement, a single-occupancy bedroom in a four-bedroom apartment facility, a single-occupancy bedroom in a suite-style arrangement with shared bath, or a single-occupancy bedroom in a two-bedroom apartment with a shared bath. Because of the limited amount of space in University housing facilities, the University does not require any student to live on campus. **No on-campus accommodations are available for families or married couples.**

Priority for assignment to the residence halls is given to incoming freshmen, who occupy approximately 80 percent of the University's on-campus housing capacity. Current residents will occupy most of the remaining space. The spaces set aside for incoming freshmen are limited by the University's overall residence hall capacity. Therefore, those desiring to reside on campus should apply for admission to the University as soon as possible.

Applications for housing can be accepted only from those applicants who have been admitted to the University. Priority for room assignments for new applicants is based on the date of the Housing Office's receipt of the completed housing application. Applicants should carefully read the application before submitting both it and the appropriate prepayment to the Housing Office

Housing contracts (whether in the on-campus apartments or the residence halls) when issued for **Fall Semester** occupancy, serve as a **two-semester** (Fall and Spring) obligation between the applicant and the Housing Office. Housing contracts issued for the **Summer Term** are a **one-semester** (Summer Only) obligation and **do not** extend to include an assignment to Fall housing accommodations.

Applicants have the option of choosing one of several University meal plans. Specific information concerning University meal plans is available from Aramark, P.O. Box 168017, UCF, Orlando, FL 32816-0222. Applications and other information concerning University housing may be obtained by consulting the Housing Office, P.O. Box 163222, UCF, Orlando FL 32816-0222. Phone: 407-823-4663.

Residence Life provides services and support for 7,500 students living in University owned and affiliated housing. Eight offices, based in the residential communities, are staffed with professionally trained area coordinators, graduate assistants, resident assistants, and the residence hall auxiliary patrol. The residence life staff provides supervision in the living areas; social, educational, and recreational programming for residents; student conduct and mediation services; student leadership opportunities through community governments, and emergency response. The Housing Outreach Team, a part of the Residence Life program, provides facility tours and contact with residents prior to arrival on campus.

The main contact for the Residence Life program is the Housing Administration Building; 407-823-4663; Fax: 407-823-3813.

Intramural Sports

Associate Director: Jim Wilkening; Recreation and Wellness Center 204; 407-823-2408; <http://imsports.ucf.edu>

The Intramural Sports program offers the opportunity to participate in more than forty 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 you will be trained to officiate sports, earn money on campus, and have an opportunity to work in the Orlando community. To sign up for a team, as an individual, or for more information, visit <http://imsports.ucf.edu> or call 407-823-2408. Get involved and remember to take a little time each day to play.

Recreation and Wellness Center

Director: Suzanne Halpin; SU 312; 407-823-2117

The Recreation and Wellness Center offers cardiovascular training equipment, weight training equipment, group exercise rooms, basketball courts, an indoor track, sand volleyball courts, a swimming pool, and a climbing tower. The UCF Wellness Center, also housed with RWC, sponsors a wide variety of health-related classes, lessons, and programs throughout the year. Playing fields and tennis courts adjacent to the building are available to students when not in use for scheduled events. The Recreation and Wellness Center is open to all students with a valid UCF ID. Memberships are available for non-students.

The Recreation and Wellness Center staff also operate the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft, and a nature trail. The facilities can be reserved for group activities by calling Student Union Event Services at 407-823-3677. For information regarding RWC, call 407-823-5011.

Student Union

Director: Suzanne Halpin; SU 312; 407-823-2117

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, The Sweet Retreat, Steak Escape, Egg Rollz, Subway, Wendy's, Sbarro, Baja Burrito Kitchen, Mrs. Field's, Pretzel Time, and Wackadoo's Grub and Brew. Retail stores include STA Travel, Park Avenue CD's, Greek Unique, KnightStop Convenience Store, Knightwear, College Optical, and the UCF Computer Store. Other services located in the Union are the SGA Ticket Center, U.S. Postal Center, and ATM's from SunTrust, Bank of America, and the UCF Credit Union. For information, call 407-823-0001.

Off-Campus Student Services

Assistant Vice President: Jimmy Watson; HAB 101; 407-823-6505

UCF Cocoa/UCF Daytona Campus Life

Director UCF Cocoa: TBA

Director UCFDaytona Beach: Diana L. Weidman

The UCF Cocoa (231 Cocoa; 321-632-1111) and UCF Daytona Beach (34/202 Daytona; 386-255-7423) Campus Life offices provide student services at the branch campuses, including: orientation, career advising, veteran affairs, international student services, and accommodations for disabled students. In addition, the offices provide programs, assistance to clubs and organizations, and miscellaneous test information.

Off-Campus Student Resource Center

Director: Jimmy Watson; HAB 101; 407-823-6505

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

The Off-Campus Student Resource Center also provides UCF students who live off-campus with information regarding a variety of on-campus programs and services. The Center 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 Center, and to become acquainted with the many benefits the campus has to offer.

Student Health Services (SHS)

Director: Robert Faust; SHC; 407-823-2701

Recognizing the importance of lifestyle in health and the prevention of disease, Student Health Services combines quality care for illness

and accidents with an aggressive health education and lifestyle enhancement program. A Student Wellness Advocate Team (SWAT) enhances the health promotion efforts of the Wellness Center.

The Student Health Center (SHC) is staffed by physicians, advanced registered nurse practitioners, physician assistants, registered nurses, pharmacists, and a full complement of other medical support personnel. Full referral service to Orlando specialists is established.

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

Optional health and accident insurance may be purchased by response to the mailers or by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Center Business Office (at 407-823-1087). Please remember that optional health and accident insurance is not part of the Student Health Services program, but is designed to provide for health coverage needs that are beyond the scope of Student Health Services, such as hospital referrals. Charges incurred outside the Student Health Center are the responsibility of the student.

Confidential testing for HIV (AIDS virus) is offered by the Student Health Center and a program for anonymous testing is available elsewhere by calling the REACH HIV AIDS Education Office at UCF-AIDS (407-823-2437). Information concerning these programs may be obtained through the Student Health Center (407-823-2701) during regular hours. When the Student Health Center is closed, students may call the Police Department to obtain help for urgent needs.

Student Leadership Programs

Director: William O. Faulkner; SU 208; 407-882-0152

Student Leadership Programs serves as an umbrella organization to address leadership education and development issues. It is composed of a team of four offices within Campus Life: LEAD Scholars Program, Office of Greek Affairs, Office of Student Activities, and United Campus Ministries. The director of Student Leadership Programs provides administrative oversight.

The primary vision for the area is the development of an intentional and comprehensive leadership development program that targets specific groups and provides campus-wide opportunities for students regardless of their class standing and/or level of involvement experience. The programs and activities will address both the short and long term developmental needs of students. Programs will vary in duration from a one-day workshop to an extended program that may involve weeks or months. The focus is to provide a variety of programmatic options that recognize students have different needs, time constraints, and levels of interest.

Greek Affairs

Director: Gregory Mason; SU 208; 407-823-2824;
(Greek Council Office, SU 208, 407-823-2072)

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

Sorority or fraternity life can offer students a "home away from home," a source of job contacts, a scholastic support system, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently, 40 fraternities and sororities involve more than 3,000 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 System through a 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. National Pan-Hellenic Council (NPHC) sponsors a Greek Expo, which allows students to become familiar with those groups comprising that governing body. Whether or not an individual chooses to join a fraternity or sorority, Recruitment and Greek Expo are excellent ways to meet people and become acquainted with life at the University of Central Florida. Learn more about fraternities and sororities by visiting our website at: <http://www.greeklife.sdes.ucf.edu>

LEAD Scholars Program

Associate Director: Jan Lloyd; SU 208; 407-823-2223;
<http://reach.ucf.edu/~lead>

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

The general goal of the LEAD Scholars Program is to prepare students to be effective community leaders in personal, professional, and civic communities. This goal is achieved through three venues: academic excellence, leadership, and community service. Students are integrated with faculty in the five colleges of Arts and Sciences, Business Administration, Education, Engineering and Computer Science, and Health and Public Affairs. Each of these colleges hosts two credit foundations of leadership courses providing the primary means of facilitating the focus for study, advisement, and educational activities as it relates to leadership, academic excellence, and community service within the college. Although LEAD Scholars will identify with a particular college, the program is available to students deciding upon their major academic interest as well as those who have settled upon a major. Sophomore students may take a leadership practicum in lieu of a class. Additionally, students will be provided special competitive opportunities to be paired with faculty or staff in the LEAD Scholars Assistantship program.

This program enables 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 through a competitive process based on academic record, extracurricular and community activities, school recommendation, and 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 future community leadership roles.

Student Activities

Director: Tony Perry; SU 208; 407-823-6471

The Office of Student Activities provides programs, resources, and services that enhance student life at the University. The office registers more than 250 student organizations (e.g., academic, pre-professional, ethnic Minority/international, governance council, Greek social, honorary, military, political/social activism, religious, service, special interest, sports) and advises the Campus Activities Board (CAB), EKCEL - Every Knight Excel in Leadership, and Volunteer UCF (VUCF). Other programs and services sponsored through this office include the Knights of the Roundtable, Family Weekend, Weeks of Welcome, and Late Knights.

United Campus Ministries

Director: Charmaine Townsend; SRC 173; 407-823-4293

The United Campus Ministry 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, United Campus Ministry offers counseling, scripture study, public lecture and discussion programs, fellowship, recreation, and worship services.

Division Of Student Development And Enrollment Services

Student Rights and Responsibilities

Director: Patricia MacKown; SRC 155; 407-823-6960

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.

Dispute Resolution Services

Coordinator: TBA; SRC 153; 407-823-3477

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 once per 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 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. Learn more about Dispute Resolution Services by visiting our website at <http://pegasus.cc.ucf.edu/~drs>

Student Conduct

Coordinator: Victoria Burke
SRC 154; 407-823-2851

The Office of Student Conduct addresses alleged violations of the "Rules of Conduct" contained within the student handbook, *The Golden Rule*. This office is also responsible for advising students of their rights during the Student Conduct Review Process, discipline certification, and student eligibility checks. The Office of Student Conduct regularly publishes the student handbook, *The Golden Rule*, which contains more detailed information on student life. Copies may be obtained at SRC 154, or may be viewed on the web at <http://www.ucf.edu/goldenrule>. 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

Director: Patricia MacKown; SRC 155; 407-823-2538

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

Special Programs

Assistant Vice President: A.J. Range; MH 282; 407-823-3867

The Unit of Special Programs is vital to the mission and purpose of the University as it seeks to provide leadership and advocacy in programs and services for students with special needs. These specialized opportunities and services enhance and complement existing support and programs that improve retention and create greater student satisfaction. As a result, the following offices are dedicated to providing an optimal student learning environment.

Creative School for Children

Director: Dolores Burghard; CSC; 407-823-2726

The Creative School for Children (Educational Research Center for Child Development) provides an educational program, including kindergarten-first grade, for children two through seven years old. 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 and graduate students. Operating hours are 7:45 a.m. to 5:15 p.m., Monday through Friday.

International Student and Scholar Services (ISSS)

Director: Saleha Suleman; Trailer #543; 407-823-2337

The International Student and Scholar Services Office provides assistance and information to the University of Central Florida international community. Its main function is to serve as a unit of advocacy and support, assist in adjusting to a new academic environment and culture, and provide immigration and other advising to prospective, new and currently enrolled international students and scholars at the University of Central Florida. A wide range of special services is offered to help international students and scholars maintain their non-immigrant visa status. This includes issuing necessary INS documents to facilitate visa issuance abroad, transfer procedure and employment authorization. Counseling and assistance on personal, financial, academic, and cultural concerns also are given to guide the international students and scholars within the University community. The Office is committed to providing accurate, updated and timely information on issues and needs pertinent to international students and scholars. Another important role of the office is to enhance international awareness and cross cultural understanding through educational, cultural and social programs and activities.

Multicultural Academic and Support Services (MASS)

Associate Director: Inez M. Ford; MH 145; 407-823-2716

The Office of Multicultural Academic and Support Services (MASS) provides comprehensive academic support, cultural enrichment, consultation, and referral services that promote the recruitment, admission, retention, and graduation of African American, Hispanic American, Asian American and Native American students. MASS offers personalized advising and support; monitors academic progress; sponsors a six week summer program, Seizing Opportunities for Achievement and Retention (SOAR); and designs and coordinates cultural and social activities to assist multicultural 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 students at UCF.

Student Disability Services (SDS)

Director: Philip Kalfin; SRC 132; 407-823-2371

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

To be eligible for disability-related services, individuals must have a documented disability as defined by applicable federal and state laws. Services are available to students whose disabilities include, but are not limited to, hearing impairment, manual dexterity impairment, mobility impairment, specific learning disability (such as dyslexia), speech impairment, visual impairment, or other disabilities requiring administrative or academic accommodations. Individuals seeking services 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. Students who have a disability that may require special assistance are requested to voluntarily contact the Office of Student Disability Services. All information is confidential and will be used only to assist the student. Information and assistance are available for faculty members working with students with disabilities. A Telecommunication Device for the Deaf (TDD)/Text Telephone (TTY) is available for hearing-impaired or speech-impaired persons with TDDs/TTYs to contact Student Disability Services. Telephone 407-823-2116 for TDD/TTY calls only.

Student Outreach Programs

Director: TBA; 407-823-5580

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

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

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

Veterans' Affairs

Assistant Director: Lorea E. Clark; MH 149; 407-823-2707

The Office of Veterans' Affairs (OVA) is a center for all veteran students and eligible dependents who are using VA educational benefits to further their education. The office has a professional staff augmented by student veterans who assist in providing information concerning entitlements, filing claims to the Department of Veterans Affairs (DVA), and certifying enrollment at the University. The office also provides counseling for personal and academic concerns, tutorial assistance, and referral to various community agencies. Veterans and eligible dependents must be certified through the Office of Veterans' Affairs to receive DVA educational benefits. The office monitors the academic progress of all those receiving DVA educational benefits. All veterans and eligible dependents are urged to consult the Office of Veterans' Affairs early in the UCF admissions process.

Veterans' Benefits

Students who are entitled to DVA educational benefits must make initial contact with the Office of Veterans' Affairs. To maintain eligibility for DVA education benefits, students must adhere to the policies and procedures contained in the UCF "Student Veteran Handbook" and DVA rules and regulations. A copy of the "Student Veteran Handbook" can be obtained at the Office of Veterans' Affairs.

The OVA evaluates and awards transfer credit for military training and education in accordance with Department of Veterans Affairs regulations and UCF policies. Credit is awarded for schools and courses only. Transfer credit is not awarded for experience, military skills level and/or special certifications. In addition, no credit is awarded for Basic Military Training. 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 or other official military records. U.S. Air Force veterans are asked to provide official copies of Community College of the Air Force transcripts to the Admissions office.

Students eligible for DVA education benefits also may be eligible for a VA Deferral of tuition and fees. The VA Deferral due date is contained in the "Academic Calendar" of this *Undergraduate Catalog*. Students eligible for financial aid adequate to cover tuition and fees are not eligible for this deferral.

For Fall and Spring semesters, undergraduates must carry at least 12 semester hours for full-time DVA benefits, 9-11 semester hours for three-quarter time benefits, and 6-8 semester hours for half-time benefits. Five semester hours or less will be reimbursed at cost of tuition and fees or quarter-time depending on DVA Chapter. Check with OVA for summer course load requirements.

Students intending to enroll concurrently at UCF and another institution have the option of receiving DVA benefits, but first must consult with the Office of Veterans' Affairs and obtain a "Transient Permission Form" from their academic advising office. Veterans and eligible dependents who desire to change their major, or who pursue a double major or dual degree, or who add a minor also may receive VA benefits but must make arrangement through the Office of Veterans' Affairs before taking any of the new courses. This includes

a minor in military sciences. **Note:** some majors have room in the program for extra electives that can be filled with courses for a minor or for another major.

To receive veterans' educational benefits, students must maintain satisfactory academic progress and conduct. Accordingly, benefits will be terminated for individuals who are disqualified, excluded, suspended, or expelled from the University. If reinstated by the University following disqualification, exclusion, suspension, or expulsion, the veteran or eligible dependent must contact the Office of Veterans' Affairs to have their DVA educational benefits re-started. Individuals placed on academic probation will continue to receive benefits as long as he or she earns a 2.0 or higher GPA each semester. For students who fail to maintain satisfactory academic progress, benefits will be terminated once the required semester 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 semester and the off-campus work terms. Contact the Office of Veterans' Affairs at 407-823-2707 for more specific benefit information on cooperative education.

Student Financial Assistance

Executive Director: Mary H. McKinney; MH 120;
407-823-2827; For appointment 407-823-5285
website: www.finaid.ucf.edu

This office's primary role is to provide financial assistance to students and families, allowing them to participate fully in the total educational experience. The office is responsible for coordinating and processing all resources for both undergraduate and graduate students. It serves also as the Undergraduate Student Personnel Office. Students may contact the Office of Student Financial Assistance to



receive individual, comprehensive counseling by telephone or to schedule an appointment with a counselor. The office provides a complete line of services regarding financial assistance to all students. For more detailed information, visit our website at <http://pegasus.cc.ucf.edu/~finaid/>.

Undergraduate Admissions

Executive Director: Gordon D. Chavis, Jr., J.D.; MH 161;
407-823-3000; email: admission@mail.ucf.edu;
website: <http://pegasus.cc.ucf.edu/~admissio/>

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, Clermont and Cocoa campuses. The office's primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to and achieve growth and success at the University of Central Florida.

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

UNDERGRADUATE ADMISSIONS



Undergraduate Admissions

*Executive Director: Gordon D. Chavis, Jr., J.D.; MH 161;
407-823-3000; email: admissio@mail.ucf.edu;
website: <http://pegasus.cc.ucf.edu/~admissio/>*

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, Clermont and Cocoa campuses. The office's primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to and achieve growth and success at the University of Central Florida.

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

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

the opportunity to meet one-on-one with an admission counselor on campus. Please contact the office at 407-823-3000 or visit our website for further information. Office hours are: Monday/Thursday 9:00 a.m. to 7:00 p.m., Tuesday/Wednesday/ Friday 9:00 a.m. to 5:00 p.m.

Campus Tours

Tours of the campus are available to all interested individuals and are an excellent way to view first-hand the facilities offered at the University. Campus tours are conducted by trained student tour-guides and last approximately one hour. Appointments are not necessary.

Tours leave from the information booth on the second floor of Millican Hall at 10:00 a.m. and 2:00 p.m., Monday through Friday, except holidays. Group tours or special requests may be scheduled by calling Undergraduate Admissions at 407-823-6936.

Students are invited to participate in an information session held immediately after each campus tour. These sessions provide general information about the University and the application process. Meetings with Admissions Officers are available and are encouraged for those students who are finalizing their college plans. Appointments can be made by calling the Undergraduate Admissions Office at 407-823-3000.

Application for Admission

All interested applicants should complete the "State University System Application for Admission" or the University of Central Florida "Undergraduate Admissions Application" and include a \$20 in U.S. Currency, non-refundable application fee, \$30 for those applying for the Spring 2004 term and thereafter. Students may also apply online at our web site, <http://pegasus.cc.ucf.edu/~admissio/application>. Students should apply **several** months in advance of an anticipated start date. Mail admission applications to: Undergraduate Admissions Office, University of Central Florida, P.O. Box 160111, Orlando, FL 32816-0111. Questions concerning admission requirements and applications should be forwarded to the same address or by calling 407-823-3000.

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

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

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

Note: Furnishing false or fraudulent statements in connection with an application for admission or residency affidavit may result in disciplinary action, denial of admission, 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 to UCF as a degree-seeking and do not attend, may reactivate the original application **within one year** of the term for which they first applied. To update the application, students should request and complete a reactivation form by the published application deadline date. This form is available in the Undergraduate Admissions Office, online, or by calling 407-823-3000. This process reactivates the application only; additional credentials may be required. Students will be reevaluated for admission for the new term. Admission for one term does not guarantee admission for a future term.

Limited Access Programs

Admission to the University **does not** guarantee admission to a limited access program. Some majors at the University limit the number of students who may enroll. Limited access status occurs when student demand exceeds available resources (e.g., faculty, instructional

facilities, equipment) or when specific accrediting requirements apply. Criteria for admission are selective and include: indicators of ability and indicators of performance, creativity, or talent to complete required work within the program.

Orientation

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

Admission Categories

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

- 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

Freshman Applicants

Any FTIC student who meets (DOE) minimum admission requirements is encouraged to submit an application. Meeting these minimum requirements **does not** guarantee admission. The University will do everything possible to admit all qualified applicants who apply by the priority deadline date. If the number of qualified applicants exceeds the number the University is permitted to enroll, admission will be on a selective basis. An applicant's total high school record (including grades, test scores, educational objective, pattern 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 its diversity.

High School Diploma

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

Entrance Examination Scores

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

High School Academic Units and Grade Point Average

All applicants must have earned a minimum number of high school academic units (year-long courses that are not remedial in nature) to be considered for admission. A grade point average (GPA) will be computed only on academic courses. Grades in honors courses, advanced courses, International Baccalaureate, and Advanced Placement (AP) 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	4
Total Units	19

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

* No minimum score required.

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

- Admission to the University is limited by space availability. The degree of competition for space depends on the number and qualifications of those who apply for admission. To increase the chance of admission, high school students should present credentials that are stronger than the minimum requirements for consideration as listed above. If the number of qualified applicants exceeds the number that the University is able to enroll, a waiting list will be established.
- A student applying for admission who does not meet established requirements may bring to the University other important attributes or special talents and may be admitted if, 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.
- Any student admitted without two years of one foreign language in high school or the equivalent (minimum eight semester hours) at the post-secondary level, must satisfy this admission requirement prior to earning 60 semester hours of credit.

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:

- Early Admission** is for students who have completed their junior year in high school and would like to enroll at the University as full-time students for their senior year of high school. Students must submit an application for admission by the published application deadline date. In addition the following information is required:
 - official copy of high school transcript(s);
 - official copy of Scholastic Aptitude Test (SAT I) or American College Test (ACT);
 - written letter of recommendation from high school counselor;
 - written permission from parents or legal guardian.
- 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.
- Dual Enrollment Off-Campus** is for students whose high schools sponsor on-site courses at specific high schools. Students earn both high school and college credit for successful completion of course work. Each respective high school selects students who are eligible to participate in these programs. Contact your high school guidance office for detailed information.

Transfer Applicants

UCF welcomes transfer applications to the University. Students should submit either the State University System application, the University of Central Florida Undergraduate Admissions Application, or apply on-line at <http://pegasus.cc.ucf.edu/admissio/>, 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, with the exception of courses taken previously at UCF. Applicants must have a current minimum cumulative GPA of 2.5, and must have a minimum GPA of 2.0 and be eligible to return as a degree seeking student to 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 semester hours of acceptable credit must minimally meet freshman high school unit entrance requirements, the high school academic GPA, and minimum SAT or ACT scores (as listed on previous page); have at least a 2.5 GPA on a 4.0 system for all college-level academic courses attempted; and be in good standing (minimum 2.0 GPA) and eligible to return as a degree-seeking student to the last institution attended. Meeting these minimum requirements **does not** guarantee admission.

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

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

- At least 60 semester hours of academic work exclusive of occupational courses and basic required physical education courses;
- An approved general education program of at least 36 semester 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 semester 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):

- 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 60 semester hours of academic course work;
- The English and Mathematics requirements of the Gordon Rule; and
- A minimum of eight semester 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.

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.

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 main 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
- Area 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 semester hours or six graduate semester hours may be earned as a 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. 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 about 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 non-immigrant alien students. All international candidates applying for admission to UCF must submit a "State University System Application," a University of Central Florida "Undergraduate Admissions Application", or apply online at <http://www.ucf.edu>. Because of additional processing time needed for International Students, those students should submit the application as early as possible, but no later than **May 1** for the Fall Semester, and **November 1** for the Spring Semester and **March 1** for the Summer Semester. To complete the application, please follow the steps below:

- Submit the completed UCF admissions application form with the required \$20.00 application fee, \$30 beginning with the Spring 2004 term and thereafter (check or money order in U.S. currency). An on-line application is available on our web site at www.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 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 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 semester 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 semester 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

Undergraduate Admissions

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 "Confidential Financial Statement" with the International Student Services Office confirming availability of finances for the first year of study. This statement must be on file **prior** to the issuance of the appropriate immigration papers. The Undergraduate Admissions Office may require additional documents and/or official transcripts before an admission decision is made.

Educational Translations and Evaluations

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

Josef Silny and Associates,
P.O. Box 248233,
Coral Gables, FL 33124,
(305) 273-1616

World Education Services
P.O. Box 745,
Old Chelsea Station,
New York, NY 10113-0745,
(212) 966-6311

International Student Mandatory Health and Accident Insurance

Each international student offered admission shall, **prior** to registration for classes, submit proof of compliance with the State University System of Florida's mandatory health and accident insurance requirement. Minimum coverage limits may be obtained from the Office of International Student Services. Written proof of insurance must also be provided. If 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 who fails to comply with this insurance requirement or who is unable to supply satisfactory proof of insurance. The University also reserves the right to withdraw from classes any international student who fails to maintain insurance coverage, cancels insurance coverage, or avoids in any way the responsibility to comply with the insurance requirement.

Non-Academic Admission Clearances

Florida Department of Education Rule 6C-6.001(2) authorizes universities to refuse admission to applicants due to past misconduct. The University further requires the Vice President of Student Development and Enrollment Services or his/her designee to review all applications disclosing information regarding any prior criminal conviction or conduct problem at another institution and to make a decision as to whether the admission of this applicant will be in the best interest of the University. This statement describes the procedure and assigns responsibility for the review of these applications for admission. Applicants, who fail to disclose any prior criminal conviction or conduct problem at another institution and such fact is subsequently discovered by the University, shall be denied admission or readmission, or any other academic and/or disciplinary action up to and including expulsion.

Transfer Credit: All Applicants

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

Accredited Institutions

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

- New England Association of Schools and Colleges;
- Middle States Association of Colleges and Secondary School, Commission on Institutions of Higher Education;
- North Central Association of Colleges and Schools, Commission on Colleges and Universities;
- Northwest Association of Secondary and Higher Schools, Commission on Higher Schools;

- Southern Association of Colleges and Schools; and
- Western Association of Schools and Colleges Accrediting Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges.

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

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

General Education Transfer Credits

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

Credits From Private and Out-of-State Institutions

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

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 of 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 semester hours at UCF and is based on an overall grade point average. For more details, refer to 'Academic Honors' within the "Academic Regulations and Procedures" section of this *Undergraduate Catalog*.

FINANCIAL INFORMATION



Office of Student Financial Assistance

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

Students are encouraged to apply for financial assistance by completing the Free Application for Federal Student Aid (FAFSA). The following Financial Assistance policies and procedures are based upon federal, state, and University regulations current for the 2003-2004 academic year. Regulations are subject to change at any time.

Determining Eligibility

In order to qualify for federal and state financial aid programs, a student must be a citizen or permanent resident of the United States, the Mariana Islands, or the Pacific Trust Territories. Some financial aid programs are available to part-time students; however, generally at least six credit hours enrollment per term is required. Pell Grants are available to some students attending less than six hours.

The Student Financial Assistance Office encourages all students to apply for financial aid and to begin the process early. There are many grant, loan, and employment programs available. Most programs require the determination of financial need.

Financial need is calculated by the federal processor who uses a standardized formula: financial need equals the cost of education (specific to the school to be attended) minus the expected family contribution (specific to each applicant) and minus any Veteran's Educational Benefits or other expected resources available. Students and/or parents provide detailed financial information on the FAFSA, which generates a need analysis. The results are forwarded to the UCF Student Financial Assistance Office by the federal processor.

School Costs

Estimated Cost of Attendance 2003-2004 (Full Time Fall/ Spring)

	<i>LIVING WITH PARENTS</i>	<i>OTHER</i>
Tuition/Fees	\$2,905	\$ 2,905
Books/Supplies	800	800
Room/Board	4,056	7,191
Personal Exp.	1,989	1,989
Transportation	1,434	1,434
Total (In State)	11,184	14,319
Out-Of-State Tuition/Fees	8,446	8,446
Total (Out of State)	\$19,630	\$ 22,765

Specific Eligibility Requirements

- The applicant must have a high school degree and must not be enrolled in an elementary or secondary school.
- The applicant must be admitted as a degree-seeking student at UCF in an eligible program.
- The applicant 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.
- The applicant must be maintaining Satisfactory Academic Progress toward his/her degree. See the 'Satisfactory Academic Progress Policy' in this chapter.
- The applicant must not be in default on any Federal Student Loan and must not owe a repayment on any grant program.
- The male applicant must be registered with Selective Service (if

Financial Information

applicable).

- The applicant's aid may not exceed the published cost of attendance (Refer to 'School Costs' in this chapter).
- The applicant must not have received Federal loans in excess of the established annual or aggregate limits.
- The applicant must show a financial need as computed by the federal processor for need based programs.
- The applicant must meet minimum hours of enrollment and other program-specific criteria.

Conditions and Requirements for Receiving Assistance

- The student must enroll for a minimum of six semester hours. Twelve hours are required for some programs, including most scholarships. Pell Grants, however, may be paid on less than six hours of enrollment;
- The student must maintain UCF's standards for Satisfactory Academic Progress (following section);
- The student agrees to inform the office of any additional assistance received beyond that listed on the award summary on POLARIS. Any subsequent awards or income may necessitate a revision of the financial assistance award;
- The student must not be in default on any educational loan or owe repayment on a grant at this or any other institution;
- The student must provide all information requested for the completion of his or her file. If selected, verification must be completed prior to the receipt of any funds or certification of a Federal Stafford Loan;
- The student must notify the Student Financial Assistance Office of any changes in housing status or corrections to the financial or household information from that listed on the student's assistance application.

Independent Student Status

The financial resources of parents do not have to be included in the determination of student's financial need if the student is:

- 24 years of age or older as of the award year
- An orphan or ward of the court
- A veteran
- Legally and financially responsible for dependents other than a spouse
- Married

UCF Application Deadlines

To be considered for the full range of aid available for the academic year (beginning with the Fall term), the federal application must be received by the federal processor by March 1 of the preceding spring.

- Incoming students should not wait to be admitted to UCF before applying for financial aid
- All students must reapply yearly 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 do not apply or have incomplete applications 30 days prior to the payment deadline should not expect their aid to be paid until well after the beginning of the Fall term.

Application Procedures

The following steps may take four to six weeks to complete. Students should apply well in advance of the March 1 deadline. Students who desire to enter UCF in spring or summer term must also apply by the March 1 deadline of the preceding Spring in order to be considered for the maximum aid available.

1. File a Free Application for Federal Student Aid

UCF requires that the student complete the Free Application for Federal Student Aid (FAFSA) or Renewal FAFSA.

Note: The FAFSA must be received by the federal processor by March 1 for the coming fall and spring terms for full consideration of available aid.

Applications should be filed electronically at www.fafsa.ed.gov.

Follow-up promptly on all corrections to the FAFSA. Messages from the processor should be reviewed thoroughly and followed as promptly as possible.

2. Follow-Through

The student's application is not complete until all documents request-

ed have been filed and reviewed in the financial assistance office. Please review all correspondence, follow instructions on the Student Aid Report and follow through promptly. Delays can be frustrating, as well as costly.

3. Verification

Federal regulations require that some students verify the information submitted on their applications. If selected for verification, students will be asked to provide income, asset and household information as required by law. Please be aware that 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.

4. Professional Judgment

Students should contact the Student Financial Assistance Office for an appointment with a counselor concerning any extenuating circumstance that they were not able to state on the original FAFSA.

5. Award Notification

Award notifications will be sent after the Student Financial Assistance Office processes the data. All awards are subject to change.

Helpful Tips:

- Make a copy of tax return forms before submission to IRS.
- Start a folder NOW to save financial aid information and photocopies of all documents filed and received.
- Include student's name and SSN on all documents submitted to Student Financial Assistance.
- Maintain a current mailing address and email address on Polaris. Most financial aid correspondence is via email.
- 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 now does not obligate the student to process a loan, but will make it easier if additional funds are needed.
- **On-line access is available at <http://finaid.ucf.edu>**
- If the student has extenuating circumstances or runs into major problems at anytime, call our appointment line, 407-823-5285, to meet with a counselor.

Office Hours:

Monday: 9:00 AM - 7:00 PM
Tuesday/Wednesday/Friday: 9:00 AM - 5:00 PM
Thursday: 1:00 PM - 7:00 PM
Call 407-823-2827 for other information.

Transfer Students

To apply for financial aid at UCF, complete all the application procedures listed and ensure that if a FAFSA has already been filed for the year that UCF has been included as a school choice. Our school code is 003954 and may be added to your application by calling the federal information center at 1-800-4-FED AID.

Dual Enrollment

Students may use approved dual enrolled hours to meet eligibility requirements for federal aid programs. Dual enrollment will not meet eligibility criteria for institutional aid programs. UCF will process financial aid for UCF degree-seeking students only.

Students should read the details concerning dual enrollment and financial aid at our website <http://finaid.ucf.edu> and download the forms necessary to receive financial aid for attending another school.

*Courses must meet some major or general education requirements to be calculated as part of student aid eligibility. Courses that will not offset degree requirements **cannot** be included.

Students **must** obtain approval for attempted credits from their academic department.

All documents below **must** be submitted on or before the semester withdrawal deadline:

- Advisor Certification Form
 - Course schedule and fee invoice/bill from host school;
 - Consortium Agreement: this may arrive later but student cannot be processed until the information is received.
- Students are responsible to pay the tuition and fees at the host institution unless that institution will agree to defer. Students must contact

the school attended for these arrangements. In addition, students must take steps to ensure that academic transcripts are sent to the UCF Registrar's Office (P.O. Box 160114, Orlando, FL 32816-0114) and must provide a copy of that transcript to the UCF Office of Student Financial Assistance.

Financial Aid Programs Available at UCF

Award notifications are available to continuing students only after files are completed. Initial notices are sent to first time UCF students before files are completed; however, awards may change after all information is received and reviewed.

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 letter are estimates based on full-time registration.

Admission to UCF must be finalized with no contingencies. Students must be classified as Degree-Seeking. Verification must be completed. Students must meet the standards for satisfactory academic progress. If all eligibility is met, financial aid funds may be disbursed.

The chart that follows indicates the number of hours for which the student must enroll each semester to receive an award from each program. The results of the FAFSA will determine eligibility for these programs. It is the student's responsibility to be aware of minimal hourly requirements for each program. When requirements are no longer met, awards will be adjusted as necessary. The adjusted award will appear on POLARIS.

Loans

Federal Family Educational Loans are made through private lenders. Undergraduate and degree seeking PostBac students must be enrolled in a minimum of six credit hours **at UCF in UCF classes** at the time of disbursement to receive funds. **First-time borrowers at UCF must complete an Entrance Interview** before a loan will be processed. Entrance Interviews may be completed by accessing our website <http://finaid.ucf.edu> and going to "Entrance Interviews". Exit Interviews are required for graduation or when enrollment drops below half time. Exit Interviews are available through our website or you may contact the office for schedules. Once eligibility has been determined by a need analysis, students must complete and submit a Federal Stafford Loan Response Form by the dates printed below so that processing can be completed in time to receive funds during the term indicated. For more details, please refer to the website at <http://finaid.ucf.edu>.

November 15
March 15
June 30

Fall Semester Loan
Spring Semester Loan
Summer Term Loan

Student loan check(s) or EFT disbursements will be sent to UCF after the lender has received a completed Master Promissory Note (MPN). We strongly suggest that you follow-up with your lender if you have not received your loan check within 20 days of mailing your promissory note or notification by the UCF Financial Assistance Office of a problem. To estimate when your Federal Student Loan funds will be mailed, refer to the Disclosure Statement from your lender; it indicates a date the lender intends to send the funds to UCF. If that date is before the semester starts, please allow ten working days from the first day of classes before inquiring about your funds. If the date is after the semester begins, please allow ten working days from the disbursement date for UCF processing. Disbursement of loan funds begins after the add/drop period and, **usually after the third week of classes.**

Two-term loans: to receive the second half of a two-term loan, the student must have received the first disbursement, and be enrolled for at least six hours at UCF (graduates-at least half-time) for the second semester.

Federal Perkins Loans are loans made by the University to students with demonstrated need. These loans are awarded at the time of packaging based on students meeting the priority deadline, available funds and student need. The interest rate is 5% and the loans have a grace period of 6 months after leaving school before repayment begins. It is required that students sign a promissory note for each term of Perkins Loan before disbursement.

Employment

Federal Work Study (FWS) jobs are awarded as part of a student's financial aid package: a minimum of six hours enrollment is required for undergraduates. Jobs are on- and off-campus and efforts are made to match job assignments with the student's academic program. Awards are paid as an hourly wage.

The Florida Work Experience Program (FWEPP) provides off-campus jobs related to the student's major to help fill unmet financial need established by a current need analysis. Six hours enrollment is necessary. This program is administered by the Center for Cooperative Education and Applied Learning, 407-823-2667.

Cooperative Education (Co-op) jobs related to students' educational goals are available off-campus and are not based on need. Contact the Center for Cooperative Education and Applied Learning, 407-823-2667.

OPS (Other Personnel Services) jobs are available on-campus and are not related to financial need. Application is made directly to the department advertising the position.

Deferrals of Tuition and Fees

Financial aid awards generally will permit students to defer the payment of tuition and fees. The amount of applicable deferment will be noted on the fee invoice as anticipated aid. Students are responsible to pay any amount owed to the University that is not covered by the amount of anticipated aid, **by the published deadline.** This process occurs automatically if the student has enrolled for sufficient hours, is meeting all general eligibility requirements, and is making satisfactory academic progress. Eligibility changes will require awards to be adjusted. This program makes up for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid disbursements begin, which normally is three to four weeks after the semester begins.

- The following programs **are not** included in the Automatic Deferral Program: work study programs, third party deferrals, other waivers, and direct-pay scholarships.
- Since awards are subject to change, deferments are also subject to change.
- Deferments based on Stafford loans will be canceled if the student does not complete a Stafford Loan Response Form or fails to complete any part of the loan process.
- Financial aid deferments based on federal or state need based programs that require a FAFSA will not be available to students who do not complete a FAFSA in sufficient time in advance of the payment deadline.

Note: The amount of anticipated Subsidized and Unsubsidized Federal Stafford Loan will include the total eligibility; however, the amount received will be 97% of the award. Lenders deduct the 3% origination fees at the time of disbursement.

Funds Disbursement

Financial aid disbursements **are not** available at the start of classes. Funds disbursement will begin after the third week of classes. Therefore, students should make themselves aware of the Automatic Deferral policies and procedures and should be prepared to use personal savings or a UCF Short Term Loan for books. Late applicants (those who apply after June 30) will likely find themselves caught up in a processing backlog that could dramatically delay the disbursement of their aid. These individuals should be prepared to cover their own living expenses out-of-pocket well into the semester.

Financial aid awards will be disbursed by the Office of Student Accounts to first offset any charges owed to the University. Funds for most programs that exceed University charges will be sent out in the form of a University refund either through EFT to a properly set up SunTrust Bank account or as a check to the mailing address on file. Students are reminded to keep the mailing address up to date.

For loan funds that must arrive by check from the lender, these will be held at the cashier's office for pick-up by the student to facilitate any deduction for debts owed to the University. It is the student's responsibility to pay outstanding debts to the school within 21 days of the date of the notification that funds have been disbursed to avoid a late charge. Undergraduate students must be enrolled in **at least six credit hours** at UCF in UCF classes at the time of disbursement of each Federal Stafford Loan check.

Financial Information

	Priority Deadline	Minimum Credit Hrs. Required	Available to Graduate Students	Second Undergraduate Degree Seeking
Federal Pell Grant Students must be considered for a Federal Pell Grant before other forms of aid will be offered; covers a maximum of two full-time semesters a year.	Before June 30 2004	Prorated based on hours	No	No
Federal SEOG (Supplemental Educational Opportunity Grant)	March 1	12	No	No
UCF Merit Award	March 1	12	No	No
FSAG (Florida Student Assistance Grants)	March 1	6	No	No
Federal College Work Study On-campus jobs; award earned as hourly wage. Not available to post-baccalaureate students.	March 1	6	Yes	Yes
FWEP (Florida Work Experience Program) Off-campus jobs directly related to a student's major or career goal. Students work from 25-40 hrs/week and are paid an hourly wage. Program is administered by the Cooperative Education Office.	Varies	6	No	No
Federal Stafford Loan Program Repayment may be deferred. Loan amounts vary as well as interest rates and repayments options.	Posted each term	6 at UCF in UCF classes	Yes At least half-time at UCF	Yes
Federal Perkins Loans Currently are made at 5% interest rate; loans deferred until 6 or 9 months after the student graduates or drops below 1/2-time. Not available to post-baccalaureate students.	March 1	6	Yes At least half-time at UCF	Yes
Scholarships A broad range of scholarships are available through federal, state, institutional, and private sources. Each has different eligibility criteria. Consult the "Scholarship" online listing for more information. Inquire about ROTC scholarships at the ROTC office.	Varies year round	Varies	Yes	Yes
Federal Unsubsidized Stafford Loans These loans operate under the same terms as regular Federal Stafford Loans except that financial need is not necessary. In addition, the student is responsible for the payment of interest as it accrues, (alternatively the interest can be capitalized into the loan balance). This loan now replaces the Supplemental Loan for Students (SLS) previously available to independent students.	Posted each term	6 at UCF in UCF classes	Yes At least half-time at UCF	Yes
Federal Parent Loans to Undergraduate Students (PLUS) These are loans that parents take out on behalf of their children (student must be dependent for financial aid purposes).	Varies	6 at UCF	No	Yes

Note: The verification process must be complete before financial assistance funds will be released. Students on Financial Aid Cancellation due to not making satisfactory academic progress are not eligible for federal or university funds.

Exit Interviews are required upon graduation or departure from UCF. Be sure to file address changes with the Registrar's Office or on-line at <https://connect.ucf.edu> as they occur.

Overawards

Financial aid awards are in part made based on need as outlined previously. The goal is to attempt to meet as much of each student's calculated need as possible. However, if information changes after initial awards are made including a change to the expected family contribution, the student's cost of attendance, information concerning additional awards becomes available, etc. the previous awards must be evaluated to prevent overawards. Overawards occur where available resources exceed the calculated need. If an overaward occurs following disbursement of awards, the student will be responsible for repayment of funds for which he or she is not eligible.

Refunds and Return of Title IV Funds

Students withdrawing before 60% of a semester has elapsed who have received federal financial aid will only be eligible for a portion of the aid received. Federal regulations require awards be adjusted

based on the length of semester attendance. Students may owe money to the University as a result of this required adjustment. Academic transcripts and other services will be on hold until repayment is made. It is recommended that students schedule an appointment with a counselor if considering a semester withdrawal to discuss the possible financial aid and academic progress consequences. The appointment desk telephone number is 407-823-5285.

Satisfactory Academic Progress Policy

Federal regulations require the University to establish standards of Satisfactory Academic Progress as a general eligibility requirement for financial assistance. A student must maintain Satisfactory Academic Progress in a course of study regardless of whether the student was a previous recipient of financial aid. Students who are unclear about these policies should schedule an appointment.

The factors required to measure satisfactory progress are as follows:

- Earn a minimum of 2.0 UCF cumulative GPA by the end of the second academic year attended;
- Complete a minimum of 75% of your attempted hours by the end of the spring of each academic year;
- Graduate within the time frame assigned by this policy

A. Qualitative Measure of Progress

Grade Point Average

Students must have a minimum of 2.0 UCF cumulative GPA by the end of the second academic year of attendance and must maintain a 2.0 GPA or better throughout their undergraduate enrollment. Students failing to meet this requirement will be placed on a financial aid cancellation status and will be ineligible to receive financial aid until they meet the requirement.

Note: Students placed upon academic suspension (disqualification or exclusion) are ineligible for financial aid. A student will regain eligibility should he or she be readmitted to the University. For academic suspension and readmission information, see 'Academic Standing' and 'Readmission' within the "Academic Regulations and Procedures" chapter of this *Undergraduate Catalog*.

B. Quantitative Measure of Progress

1. Measurement of Progress Within Time Frame

At the end of each Spring term, Student Financial Assistance will review the academic progress of all financial aid applicants. A student must have earned 75% of the UCF attempted hours for previous Summer, Fall and Spring terms at the latest degree level in progress (i.e., undergraduate and graduate credits cannot be commingled). If, at that time, it is determined that the student is not meeting the University's standards of academic progress, the student will be placed on financial aid cancellation and written notification will be sent to the student.

Students who are new to the University (0-6 credits) will be allowed to continue receiving financial aid until the next evaluation.

Successful completion of a class is defined as earning a grade of A, A-, B+, B, B-, C+, C, C-, D+, D, D- or S. Classes that meet the Gordon Rule must be completed with a minimum grade of "C-" (1.75). Unsuccessful completion is defined as earning a grade of F, W, I, WP, WF, X, N, U, WM, WH, or NC.

2. Time Frame for Completing Degree Objectives

Overall attempted hours will be monitored at the end of the Spring term of each academic year. When a student meets or exceeds the number of hours, the student will be placed on financial aid cancellation even if financial aid was not received during previous terms. Below is a chart of the allowed time frame per classification:

<i>Undergraduate</i>	180 Overall Attempted Hours (including transferred hours)
<i>Second-Degree</i>	60 Attempted Hours (including all Post-Bac hours)
<i>Master's</i>	70 Attempted Hours (including all Post-Bac hours)
<i>Specialist</i>	100 Attempted Hours (including all Graduate and Post-Bac hours)
<i>Doctorate</i>	120 Attempted Hours (including all Graduate and Post-Bac hours)

Procedure for Appeals

If students do not meet the above standards, they will be placed on financial aid cancellation. When students are on cancellation, they are not eligible for aid or a deferment unless reinstated through the appeal process. Any student with extenuating circumstances who is placed on cancellation may appeal to the Financial Aid Review Committee. To appeal, the student must:

1. Complete the Satisfactory Academic Progress Appeal Form, which is available on our web site at <http://finaid.ucf.edu>
2. Submit acceptable documentation supporting the extenuating circumstances.

After a thorough evaluation of the written request and all documentation, the Financial Aid Review Committee will notify the student of its decision in writing.

UCF Undergraduate to Graduate Fellowship

This merit-based award is for first-year graduate students who will complete their undergraduate degrees at UCF in the previous year and who will continue in UCF graduate programs, either masters or doctoral, in the following academic year. For more graduate financial

aid information, please see the UCF Graduate Catalog or online at www.graduate.ucf.edu.

Student Rights and Responsibilities

- Students have the right to full information about the financial aid programs available at UCF, application procedures and deadlines, and the criteria used to determine a financial package.
- Students have the right to appeal decisions made by the Student Financial Assistance Office.
- 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.
- It is the student's responsibility to periodically check their financial assistance progress on POLARIS at <https://connect.ucf.edu> for application status, Short-Term Loan status, deferment status, disbursement information, and "Fee Invoice."

Student Accounts Office

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

Schedule of Fees

A student's basic expenses at the University will be for registration and course related fees, room and board, textbooks, and miscellaneous items. Required fees are established by the University Board of Trustees and are subject to change without notice. Fees are affected by residency status.

Students are encouraged to obtain a "Fee Invoice" to confirm fees and course registration. Fee Invoices **are not** mailed. Fee Invoices are available on the POLARIS web system and kiosks, from student's college advising offices, and in the Registrar's Office. Students must obtain a new "Fee Invoice" after making any course changes or schedule adjustments.

All University fees must be paid according to published dates and no later than the end of the Late Registration and Add/Drop period. Fees not paid by the payment deadline date for each term will result in late fees and could result in the cancellation of all classes. The following schedule applies to all UCF students:

Registration Fees per semester or term are shown for main campus, area centers, and continuing education courses. 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.

Late Registration Fee

Students who register for the first time during Late Registration and Add/Drop will be assessed a Late Registration Fee of \$100.

Payment Deadline:

Pay Now or Pay More

Failure to pay fees or obtain a deferment of fees by the payment deadline will result in the assessment of a \$100.00 Late Payment Fee. Students who register for UCF 1500 "UCF Temporary Course" are required to pay for this temporary class by the payment deadline to avoid assessment of the Late Payment Fee.

Student Financial Responsibility Statement

Registration at UCF requires students to acknowledge the following financial responsibility statement: "I accept responsibility for payment of my term tuition and fees by the published deadline. I understand that if I fail to pay my tuition and fees by the deadline, I will be charged a \$100 Late Payment Fee, my records will be put on hold, my account will be referred to a collection agency, and I may incur other financial consequences."

Late Registration Fee and Late Payment Fee Appeals

Students who desire to appeal a Late Registration, and/or Late Payment, may make their appeal to the Fee Appeals Committee by initiating a student petition (Form 41-561). This form can be obtained

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online at www.finacctg.ucf.edu
>Student Accounts >forms, from the University Cashier or the Student Accounts Section of Finance and Accounting. Students must submit their petitions to Student Accounts (MH 107) and may appear before the Committee (not mandatory).

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 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.

Acceptable Forms of Payment

Acceptable forms of payment are cash, cashier's checks, money orders and credit cards. Credit card payments may be made online, through POLARIS, at the Cashier's Office (MH 109) or by a telephone call to the Cashier's Office at 407-823-2614. A mandatory, nonrefundable \$10 convenience fee will be charged each time a student chooses to pay tuition or other state mandated fees with a credit card.

Payment Procedures

Payment must be received or postmarked no later than the fee payment deadlines specified. Payment may be made at the Cashier's Office (MH 109). Operating Hours are Monday and Thursday from 8:30 a.m. to 7:00 p.m. and Tuesday, Wednesday and Friday from 8:30 a.m. to 4:00 p.m. Students may submit payment after Cashier's Office operating hours at the Cashier's night depository (located at the pond entrance of Millican Hall) or through the enrollment screen "ePay" option on POLARIS at <https://connect.ucf.edu>. Payments (no cash) placed in the night depository by the official fee payment deadline will be considered "on time." Students may also submit payment by mail. Mailed payments **must** be postmarked no later than the payment deadline. Please include the student's PID on checks or money orders.

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.

Do not send cash. Address payments to:

University of Central Florida
P.O. Box 918449
Orlando, FL 32891-8449

Do not assume your registration will be canceled if you fail to pay fees or attend classes. Tuition deferrals will prevent class cancellation for non-payment. Payment guidelines for off-campus registration are contained on the off-campus registration form.

Refund of Fees

A refund of fees will be made under the conditions noted below. A written appeal for a refund or other appeal action must be submitted to the University within six months of the close of the semester/term

2002-2003 Tuition and Fee Schedule*

(2003-2004 fees not available at time of publication).

Fees Per Credit Hour	Florida Resident		Non-Florida Resident	
	Undergraduate	Graduate	Undergraduate	Graduate
Matriculation Fee	\$58.45	\$147.34	\$58.45	\$147.34
Non-Resident Fee	.0	.0	\$300.49	\$465.33
Building Fee	\$2.32	\$2.32	\$2.32	\$2.32
Capital Improvement Fee	\$2.44	\$2.44	\$2.44	\$2.44
Financial Aid Fee	\$2.91	\$7.01	\$2.91	\$7.01
Non-Res Financial Aid Fee	.0	.0	\$13.13	\$20.34
UCF Activity and Svc Fee	\$8.09	\$8.09	\$8.09	\$8.09
UCF Athletic Fee	\$9.90	\$9.90	\$9.90	\$9.90
Transportation Access Fee	\$3.90	\$3.90	\$3.90	\$3.90
TOTAL PER HOUR FEES	\$88.01	\$181.00	\$401.63	\$666.67

2002-2003 Third Attempt Repeat Course Fee Schedule*

Fees Per Credit Hour	Florida Resident		Non-Florida Resident	
	Undergraduate	Graduate	Undergraduate	Graduate
Matriculation Fee	\$58.45	N/A	\$58.45	N/A
Non-Resident Fee	.0	N/A	\$300.49	N/A
Building Fee	\$2.32	N/A	\$2.32	N/A
Capital Improvement Fee	\$2.44	N/A	\$2.44	N/A
Financial Aid Fee	\$2.91	N/A	\$2.91	N/A
Non-Res Financial Aid Fee	.0	N/A	\$13.13	N/A
UCF Activity and Svc Fee	\$8.09	N/A	\$8.09	N/A
UCF Athletic Fee	\$9.90	N/A	\$9.90	N/A
Transportation Access Fee	\$3.90	N/A	\$3.90	N/A
Repeat Course Fee	\$177.42	N/A	\$177.42	N/A
TOTAL PER HOUR FEES	\$265.43	N/A	\$579.05	N/A

Other Fees: Resident and Non-resident *

UCF Campus Card Fee (per academic year)	\$10.00
Campus (ID) Card Replacement Fee	\$15.00
Health Fee	\$6.00 per credit hour Minimum charge: \$36.00 Maximum charge: \$90.00
Material and Supply Fee (approved courses only – varies per course)	\$2.00-\$15.00
Late Registration Fee (students who initially register during Late Registration)	\$100.00
Late Payment Fee (failure to pay, defer or present waiver for fees by payment deadline)	\$100.00
Returned Check Fees (checks returned for any reason):	
Check amounts up to \$50.00	\$25.00
Check amounts over \$50.00 and less than \$300.00	\$30.00
Check amounts over \$300.00	\$40.00 or 5%, whichever is greater
Transcript Fee	\$5.00 per transcript
Student Health Fee: Mandatory fee assessed to all students except those enrolled at area campuses (i.e., UCF Cocoa, UCF Daytona, UCF Downtown, UCF Lake Sumter, UCF Palm Bay, UCF South Orlando, UCF Seminole, and UCF Valencia) and exclusively in Continuing Education courses.	

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. Rates for the 2003-2004 academic year will be available in early July 2003.

to which the refund or other appeal action is applicable. Any debts to the University will be deducted from the refund, where applicable, up to the full amount.

A full refund is due when:

1. Any class is dropped before the end of the Add/Drop period;
2. Cancellation of the course by the University; or
3. Student is denied admission to an offered course.

Partial refund due to complete withdrawal from the University: for the Fall and Spring semesters, a 25% refund of tuition is available for students who completely withdraw from the University by the end of the fourth week of classes. For the Summer term, complete withdrawal from an individual session must occur before the first quarter of classes has elapsed for that session. Each session in the Summer term is considered individually for partial refund purposes. The exact withdrawal deadline dates for each term may be obtained from the Student Accounts Office.

Refunds for exceptional circumstances at any time upon withdrawal from one or more courses: up to 100% of tuition and registration fees due to circumstances determined by the University to be exceptional, including but not limited to sickness, death, involuntary call to military service, or administrative errors created by the University.

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 registration fees. State Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) 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. It is the responsibility of the employee to register on a space-available basis only. 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, practicums, third attempt repeat courses, 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.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. Employees may obtain the "State Employee Waiver Form and Instructions" from the Registrar's Office web-site at <http://registrar.ucf.edu>.

UCF Employee Tuition Policy

All full-time general Faculty, Administrative and Professional (A&P), and University Support Personnel System (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 the registration fee. UCF Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the UCF Employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF Employee will be liable for all applicable fees. Any UCF Employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term's Fee Payment Deadline. See the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. **Prior to enrolling** into courses each term, enter the Human Resources web site at <http://www.hr.ucf.edu> for eligibility requirements, course restrictions and for the waiver application form.

Tuition 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.ucf.edu/toplinks/academic_calendar.htm) for each term for dates and times. The tuition fee waiver cannot be used for courses which require increased costs (such as thesis, dissertation, directed individual study). A "Florida Residency" Affidavit is required to establish Florida residency. A completed "Student Health History" must be filed prior to registration. Inquiries should be directed to the Registrar's Office (MH 161).

State Tuition Exempt Program (STEP)

Eligible members of the active Florida National Guard may receive a waiver of 50% of tuition and material and supply fees. Registration is on a space-available basis on the last day of Registration at the time specified in the "Academic Calendar" (http://www.ucf.edu/toplinks/academic_calendar.htm.) STEP students should present FNG form 621-5-2 to the Student Accounts Office (MH 107) prior to the fee payment deadline.

Florida Prepaid College Plan

For any student enrolled who has a Florida Prepaid College Plan, the University will automatically defer the portion of the tuition covered under the plan. The plan does not cover the local UCF fees that include the athletic fee, activity and service fee, health fee, campus card fee and material and supply fee.

If you **do not** desire to utilize the Florida Prepaid College Plan,

please notify the Student Accounts Office (MH 107) by the fee payment deadline. **Note:** these fees **may** change each academic year.

Florida Residency for Tuition Purposes

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

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

And

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

And

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

1. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:
 - a. Declaration of Domicile
 - 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;

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- 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 bonafide Florida resident, including the age and general circumstances of the individual;
 - n. Proof of graduation from a high school located in Florida.
3. No contrary evidence establishing residence elsewhere;
4. Documentation of dependent/independent status (notarized copy of most recent IRS tax return)
Or
- Be married to a person who has been a legal resident of the State of Florida for the required 12-month period and relinquish legal ties to any other state,
Or
- Be a member of the Armed Forces on active duty stationed in Florida, or a spouse or dependent,
Or
- Be a member of the full-time instructional or administrative staff of a state public school, community college, or university in Florida, a spouse or dependent,
Or
- Be a dependent and have lived five years with an adult relative, who has established legal residence in Florida,
Or
- Be a person who was enrolled as a Florida resident for tuition purposes at a Florida institution of higher education, but who abandoned Florida residency and then re-enrolled in Florida with 12 months of the abandonment,
Or
- Be a full-time Latin American or Caribbean student who receives scholarships from the federal or state government,
Or
- Be a United States citizen living on the Isthmus of Panama who has completed 12 consecutive months of college work at the Florida State University Panama Canal Branch, or a spouse or dependent,
Or
- Be a graduate student of the Southern Regional Education Board's Academic Common Market attending Florida's state universities,
Or
- Be a full-time employee of a state agency or political subdivision of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training,
Or
- Be a U.S. Citizen who is a McKnight Doctoral Fellowship recipient,
Or
- Be a qualified beneficiary under the Florida Pre-paid Post-secondary Expense Program per s.240.551(7)(a),
Or
- Be an active duty member of the Canadian military residing or stationed in this state under the North American Air Defense (NORAD) agreement, or a spouse or dependent,

And

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

Residency Reclassification

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

To request a residency review, the student must submit a completed "Residency Reclassification Request Form" and supporting documents to the Registrar's Office (MH 161). This form is available either at the Registrar's Office or online at <http://registrar.ucf.edu>. The reclassification 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 (formerly 240.1201), Florida State Board of Education Administrative Code 6A-10.44, and State Board of Education rule 6C-7.005. In addition, University policy requires students requesting residency reclassification to provide documentation establishing that they have income or personal sources to meet financial obligations of attendance and living expenses. Contact the Registrar's Office at 407-823-3100 for additional information regarding all residency reclassification requirements.

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

Students seeking residency reclassification should understand that living in or attending college in Florida is not tantamount to establishing residency in Florida for tuition purposes. The student who comes to Florida to enroll in a Florida post-secondary educational institution as an out-of state resident and continuously enrolls in a Florida institution normally will not meet the Florida residency requirement for in-state tuition regardless of the length of time enrolled. Living or attending school in Florida merely evidences physical presence. The student must provide documentation verifying that he or she has formed significant legal ties to the State of Florida. This documentation must establish that the Florida residence constitutes a bonafide 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.

New and continuing students who believe that they qualify for Florida residency must submit the request and all documents prior to the close of "Late Registration and Add/Drop" for the term in which Florida residency is requested. Documentation received after the last day of "Late Registration and Add/Drop" will not be used to determine residency for the current term. Approved residency reclassification **will not** be applied retroactively to previous terms.

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

ACADEMIC ADVISING



Responsibilities

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

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

Freshman (First Time in College - FTIC)

Every incoming Freshman is assigned a professional first year academic advisor in one of the four 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 student's particular needs. Please know that although you have been assigned to an advisor in one of the offices, you are not limited to seeking help there. Contact the assigned advising office if you need to change advising offices.

Academic advising is one of the most important services provided at UCF and can impact a student's successful progression to graduation.

New FTIC Students can expect to:

1. Attend a mandatory Orientation that will provide:
 - a. Initial academic advising in a group setting and preparation for the first semester, including schedule planning and registration
 - b. An assessment of high school grades, entrance and placement test scores
 - c. An awareness of expectations for success at UCF
 - d. Information about key academic policies and important deadlines

Academic Advising

2. Connect to their first year advising office during the first semester according to the following designated priority order:
 - a. **Academic Services for Student-Athletes (ASSA)** -for student athletes (WDSC 123)
 - b. **Student Academic Resource Center (SARC)** -for participants in the College Achievement Program (CAP) or Pegasus Success Program (PH 113)
 - c. **Multicultural Academic and Support Services (MASS)** -for all students in the SOAR program (MH 145)
 - d. **First Year Advising and Exploration (FYAE)** -for students not covered by any of the previous categories (PH 116)Through these offices students can access general education advising, the academic exploration program 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.

College of Arts and Sciences

Although students may have several advisors for various reasons, majors within the College of Arts and Sciences must meet with their major department and their faculty academic advisor and/or the staff of the Office of Academic Support and Information Services (OASIS; CNH 202) as soon as possible.

New students will:

1. Meet in a group setting during Orientation with representatives from the College of Arts and Sciences to discuss college policies and procedures;
2. Meet with representatives of the department of the major to discuss major requirements and career opportunities, and plan a class schedule;
3. Refer to OASIS 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 in the department during the first two months of any semester to review progress and plan a program of study;
2. Meet with their academic advisor in the department of their major prior to registration. The POLARIS Class Schedule Search is also available online at <https://connect.ucf.edu> each semester, and a SASS Degree Audit is available on POLARIS. Questions about the degree audit should be directed to OASIS unless specific to the major requirements;
3. Continue to register for classes through POLARIS. Special assisted registration (e.g., overrides, independent study) must be handled in OASIS;
4. Refer to OASIS any questions pertaining to GEP, CLEP, AP credit, Gordon Rule, university credit hour requirements, as well as policies and procedures; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

College of Business Administration

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

New students will:

1. Meet college advising representatives in a **group** setting during Orientation to discuss college policy, procedures, and degree programs;
2. Review degree requirements at Orientation using SASS Degree Audit and catalog to better understand degree requirements and learn how to read a SASS Degree Audit;
3. Meet with the transfer advisor in the Office of Student Support

- (OSS; BA 240) during their first enrolled semester to petition transfer work into their degree program;
4. Meet with a faculty advisor in the department of their major to understand the career options of your major; and
5. Be advised in the OSS if your major is Business Pending.

Continuing students will:

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

College of Education

New students will:

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

Continuing students will:

1. Set up an appointment with a faculty advisor **if accepted in a major** or the Office of Student Services, **if a "Pending" major**, to review academic progress and to develop an academic plan. Review this plan each term with an advisor prior to registration;
2. View a SASS Degree Audit through POLARIS;
3. Register at scheduled appointment time in POLARIS. Students with extenuating circumstances may register in person in the College of Education Office of Student Services. Students must complete any changes to their schedules by the end of the published Add/Drop period; and,
4. File an "Intent to Graduate Form" in the College of Education by the end of the term prior to the term in which graduation is intended.

College of Engineering and Computer Science

New students will:

1. Meet with the Engineering and Computer Science Academic Affairs representative in a group setting during Orientation to:
 - a. Review the College of Engineering and Computer Science academic policies and procedures
 - b. Discuss degree program requirements;
2. Meet with a faculty advisor in the department of their major to:
 - a. Understand the career options of the major
 - b. Plan an appropriate first semester schedule; and
3. Be advised in the Engineering and Computer Science 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. See the department of their major during the first week of the term to be assigned a faculty advisor. 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 Computer Science

- Undergraduate Advising Office in CSB 201C;
2. Set up an appointment with the faculty advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
 3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements;
 4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through POLARIS at <https://connect.ucf.edu>;
 5. Register at the scheduled appointment time in POLARIS, or in person in the Engineering and Computer Science Academic Affairs Office. Complete all schedule changes by the end of the published Add/Drop period;
 6. Submit a written schedule plan signed by their faculty advisor each term if you have been placed on an engineering advisement hold. This plan must be submitted in person to the Engineering and Computer Science Academic Affairs Office each time a student uses the registration process. (Mechanical and Aerospace will submit their plan to the MMAE Office ENGR 307); and,
 7. File an "Intent to Graduate Form" in the Engineering and Computer Science Academic Affairs Office by the withdrawal deadline of the term prior to the term in which the student intends to graduate.

College of Health and Public Affairs

New students will:

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

1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.
4. If the student is accepted in a major, he or she should check in the department of their major for their assigned faculty advisor during the first few weeks of the semester.

Continuing students will:

1. See their faculty advisor, **if accepted in a major**, during the first few months of each semester to check progress toward graduation and selection of program courses. The faculty advisor's name and phone number appear on the SASS Degree Audit each term;
2. See an advisor in the College of Health and Public Affairs (COHPA) Office of Student Support (HPA2 115), **if pending majors** in limited-access programs, during the first few weeks of each semester to check progress toward eligibility for application to the major;
3. View a SASS Degree Audit through POLARIS; and,
4. File an "Intent to Graduate Form" in the COHPA Office of Student Support by the end of the term prior to the term in which graduation will occur.

Pre-Health Professions Advisement

The Pre-Health Professions Advisement Office (HPA 124; 407-823-2670) serves all students preparing for and seeking admission to professional schools of chiropractic, dentistry, medicine, osteopathic medicine, optometry, pharmacy, podiatry, and veterinary medicine. 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 semester hours of typical undergraduate pre-health professions courses taken at UCF).

Pre-Health Professional Planning

Preprofessional advisement deals primarily with application and admission procedures.

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 semester hours each term, with the exception of Summer terms.

Each student is urged to carefully select a degree-granting major. This will not only allow one to become more competitive for admission, but also to prepare for an alternate career in the event admis-

sion 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.

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 fall 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 courses (many of which are applicable to the GEP):

General Biological Sciences	BSC 2010C, 2011C
Genetics	PCB 3063
General Chemistry	CHM 2045C, 2046, 2046L
Organic Chemistry	CHM 2210, 2211, 2211L
Microbiology	MCB 3203
Calculus	MAC 2233 (prefer MAC 2311, 2312)
Physics	PHY 2053C, 2054C (prefer PHY 2048, 2048L, 2049, 2049L)
Statistics	STA 2023

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

Choosing a Major and Academic Advisement

The advantage of declaring a major early is to be linked with an academic advisor within his or her chosen degree track. Problems are less likely when students remain in contact with advisors.

Terms such as "Premed" or "Prevet" should not be confused with offering premedical preparation.

Traditional majors for pre-health professionals are characterized by degree requirements which overlap most professional school admission requirements such as Chemistry, Biology, Molecular Biology and Microbiology.

If a student elects a non-traditional pathway and does not complete more than the minimum science requirements, she or he will be expected to have accomplished an outstanding performance record in the science classes taken.

The curriculum for the first two years is very similar for all pre-health professions students. Professional schools are less concerned with what undergraduate major one chooses, than with how well he or she performed and his or her choice of enrichment electives.

Dates of Importance

The pre-professional 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.) and 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.



Rosen School 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 major programs of study;
3. Plan an appropriate first semester class schedule; and,
4. Review a SASS Degree Audit or view through POLARIS.

Continuing students should:

1. See their faculty advisor during the first few weeks of each semester to check progress and to select a program of study;
2. See a program advisor prior to registration to select courses;
3. View a SASS Degree Audit through POLARIS and contact the Office of Academic Services regarding questions or concerns; and,
4. File an Intent to Graduate Form in the School's Office of Academic Services (CL1 302) during registration for the graduating term.

The Burnett Honors College

New students will:

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

Continuing students will:

1. Contact the department of their major and meet with a faculty advisor in the department during the first two months of any semester to review progress and plan a program of study;
2. Meet with their academic advisor in the department of their major prior to registration.

3. Contact the office of Honors Advising (BHC 107) and based on the recommendation from their academic advisor and the requirements for University Honors, an Honors Advisor will assist with Honors course selection;
4. Continue to register for classes online; and,
5. Check their "Fee Invoices/Schedule" to ensure accuracy of class schedule.
6. Attend any mandatory Honors advising appointments.

Area Campus System

Area Campus System

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

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

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

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

TRANSFER SERVICES

Transfer Services

Assistant Director: Charlene A. Stinard, PH 102
Orlando, FL 32816-0123
407-823-5959 or Fax: 407-823-3955
E-mail: tservices@mail.ucf.edu
Website: <http://transfer.sdes.ucf.edu>

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

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

Where Can I Go For Help?

For information or assistance during the transfer process, you may contact the Office of Transfer Services, located in Howard Phillips Hall, room 102. Call the Student Hotline at 407-823-5959 or visit the Transfer Services web site at <http://transfer.sdes.ucf.edu>; an Instant Messenger feature allows you immediate access to staff during regular business hours.

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

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

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 require special application deadlines, GPA requirements, testing, portfolios, letters of recommendation, etc.

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

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

- Priority in admission to state universities;
- Acceptance of at least 60 credit hours toward the baccalaureate degree; no additional general education core requirements;
- Acceptance of all courses taken at your institution, if the same course with the same course number is offered at UCF;
- Transfer of all accelerated programs (CLEP, AP, IB, early admission, and dual enrollment courses) within the A.A.;
- 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.

What If I Have Not Taken the CLAST?

Students may be admitted without completing the CLAST. However, without the CLAST completed, you **are not** awarded the A.A.; privileges provided by the A.A. **are not** granted, (e.g., grade forgiveness, Gordon Rule, and the completion of general education requirements). If you have met all the A.A. requirements **except** the CLAST, you should have "General Education Requirements Met" placed on your transcript to assure getting credit for meeting General Education and Gordon Rule requirements. Without this statement you **must** satisfy UCF's general education requirements and Gordon Rule courses. No grade forgiveness is given without the A.A. awarded. If your grade point average falls below a 2.0 (without grade forgiveness), you **will not** be admitted.

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.

Students entering the College of Education **must pass the CLAST** before enrolling in upper division education courses. Students majoring in Education may not use waivers or alternatives to satisfy CLAST requirements. Education majors who have used alternatives or waivers should speak with an advisor in the College of Education Office of Student Support.

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

What Are the Foreign Language Requirements?

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

Some baccalaureate degrees require students to demonstrate foreign language proficiency as a graduation requirement; this requirement may be satisfied by college-level course work or testing equivalent to one year of college instruction. Some majors require additional proficiency. Consult the UCF *Undergraduate Catalog* for graduation requirements for specific majors. Neither high school courses nor American Sign Language proficiency will 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 will be mailed to you. The TSR is the basis for constructing a SASS 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.

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

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

Transfer Services

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 before classes begin. Students will receive a copy of their fee invoice at orientation or can print one online from POLARIS (<https://connect.ucf.edu>). A late payment fee of \$100 will be assessed on all accounts not paid or deferred by each term's payment deadline. Please note that you will not be sent a bill. It is up to you to view your invoice through POLARIS. Payments may be made at the Cashier's Office, Millican Hall, room 110, or mailed to:

University of Central Florida
Cashier's Office
PO Box 918449
Orlando, FL 32891-8449

Please do not mail or place cash in the night depository. Please include your PID on all checks and money orders. Credit cards are accepted, in person, over the Web, or by telephone; a **\$10 convenience fee** is added for each transaction.

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 deferrals, 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 website at <http://honors.ucf.edu>.

Transfer Tips:

Office Visits for Transfer Advising

- Students are encouraged to contact the Office of Transfer Services with questions or to schedule an appointment to meet with an advisor. Advisors are available Monday - Friday, 8:30 a.m. - 4:30 p.m.
- Transfer students accepted to UCF who are undeclared majors or are undecided about their major should contact Transfer Services prior to orientation for advisement.

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. This means you will register along with native UCF rising juniors.
- Keep a transfer diary. For each contact with UCF, record the name of the person with whom you spoke, the date, and the type of request. Keep a copy of all letters you send and receive.
- Have original transcripts from all institutions you have attended sent directly to the Undergraduate Admissions Office. If you are currently enrolled, send a transcript when applying and a final transcript when classes are completed.
- Attend the earliest Orientation session possible. You will have more course selections and registration choices. You should bring copies of all transcripts (transcripts sent in for admissions purposes are not available for advising during orientation). You are advised and then allowed to register. Tuition and fee payments are due by the published deadline, before classes begin.
- Complete the "Student Health Form." Registration will not be allowed without the completion and approval of this form.
- Complete CLAST if possible; however, you can be admitted with-

out 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**.

Transfer Checklist

Before Completing the A.A.

- ___/___/___ meet with counselor or advisor for graduation check
- ___/___/___ complete application for graduation

Application for Admission

- ___/___/___ date submitted
- ___/___/___ date admission status checked at <http://connect.ucf.edu>
- ___/___/___ date of acceptance

Transcripts (original transcript from all institutions attended)

- ___/___/___ date transcripts sent from all current and prior institutions
- ___/___/___ date final transcript sent after term completed

Financial Aid/Scholarship

- ___/___/___ date financial aid application (FAFSA) sent
- ___/___/___ date financial aid notification received from UCF
- ___/___/___ date SCHOLARSHIP application mailed or transfer notice sent to appropriate office
- ___/___/___ date SCHOLARSHIP application response

Housing

- ___ on-campus housing ___ off-campus housing
- ___/___/___ date application sent (include deposit when required)
- ___/___/___ date accepted

Immunization

- ___/___/___ date student health form submitted
- Y___ N___ need immunizations

Foreign Language Requirements

- 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
- Y___ N___ exempt from foreign language admission requirements

Note: Although American Sign Language may be used to satisfy the **UCF admission** requirement, it **cannot** be used to satisfy graduation requirements that may be required by the specific major.

Program (Major) Requirements

- Y___ N___ limited access application
- Y___ N___ completed prerequisites
- Y___ N___ met grade point average (GPA) requirements,
- Y___ N___ met minimum 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___ audition/portfolio additional admission requirements met
- Y___ N___ CLAST exam or alternatives

Orientation:

- ___/___/___ orientation date at UCF

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 semester 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 semester 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 semester hours after CLEP credit has been awarded;
- Apply no more than 45 semester 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 semester 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, are within at least 15 semester hours of completion of all requirements or are in the final term of completion of all their requirements.

Choice of Catalog (Catalog Year) and Continuous Enrollment

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

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

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

General Education Program (GEP)

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

Courses that fulfill the General Education Program requirements are specified, but in some cases an advanced course in the same discipline may be substituted for GEP requirements with the approval of Enrollment and Academic Services. Students should consult both with an advisor and with Enrollment and Academic Services before submitting any 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 Communication Foundations

Courses in this area include content from one or more of the items below that teach students to understand:

- the writing process and use it to communicate persuasively for a variety of purposes, including analysis and argumentation;
- identify and write for specific audiences in order to select and narrate events and ideas;
- think critically about and research appropriate academic topics, synthesize and articulate the results of that research, and apply appropriate documentation;
- present and exchange ideas in public speaking using effective organization of words and appropriate use of visual aids, and effective extemporaneous delivery;
- understand the communication theories that are applied to public speaking situations.

Cultural and Historical Foundations

Courses in this area include content from one or more of the items below that teach students to:

- understand history and culture in the context of diverse human experience;
- appreciate the arts and humanities and how they mirror cultural and artistic values of others;
- think critically about the past and about the evolution of science, society, and culture.

Mathematical Foundations

Courses in this area include content from one or more of the times below that teach students to:

- understand and use quantitative concepts and be able to solve mathematical problems through the application of fundamental laws;
- reason critically, think creatively, assess evidence and form conclusions;
- use skills in logic, inductive and deductive reasoning and abstract and quantitative thinking;
- use knowledge of basic laws of probability in the collection, classification, and use of data.

Social Foundations

Courses in this area include content from one or more of the items below that teach students to:

- understand the working of governmental structures;
- understand the process by which individuals and groups allocate resources;
- analyze the structure of current or past societies, cultures, and institutions;
- understand human behavior and describe the development of sen-

Undergraduate Degree Requirements

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

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

Communication Foundations

		9 hours	
1.	ENC 1101	English Composition I ^{1, 2}	3(3,0)
2.	ENC 1102	English Composition II PR:ENC 1101 ^{1, 2}	3(3,0)
3.	SPC 1600C	Fundamentals of Oral Communication or	3(3,0)
	SPC 1016	Fundamentals of Technical Presentation	3(3,0)

Cultural and Historical Foundations

		9 hours	
1.	<i>Take one of the following two-semester sequences:*</i>		<i>(6 hours)</i>
	EUH 2000	Western Civilization I ² and	3(3,0)
	EUH 2001	Western Civilization II ² or	3(3,0)
	HUM 2211	Humanistic Tradition I ² and	3(3,0)
	HUM 2230	Humanistic Tradition II ² or	3(3,0)
	AMH 2010	U.S. History: 1492-1877 ² and	3(3,0)
	AMH 2020	U.S. History: 1877-present ² or	3(3,0)
	WOH 2012	World Civilization I ² and	3(3,0)
	WOH 2022	World Civilization II ²	3(3,0)
2.	<i>Take one course from the following:</i>		<i>(3 hours)</i>
	ARH 2050	The History of Art I	3(3,0)
	ARH 2051	The History of Art II	3(3,0)
	MUL 2010	Enjoyment of Music	3(3,0)
	THE 2000	Theatre Survey	3(3,0)
	FIL 1001	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	3(3,0)
	LIT 2120	World Literature II PR: ENC 1102	3(3,0)

Mathematical Foundations

		6 hours	
<i>Take one course from each group.</i>			
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)

Social Foundations

		6 hours	
<i>Take one course from each group.</i>			
1.	ECO 2013	Principles of Macroeconomics	3(3,0)
	ECO 2023	Principles of Economics II	3(3,0)
	POS 2041	American National Government	3(3,0)
2.	PSY 2012	General Psychology	3(3,0)
	SYG 2000	General Sociology	3(3,0)
	ANT 2000	General Anthropology	3(3,0)

Science Foundations

		6 hours	
<i>Take one course from each group.</i>			
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: MAC 1105 or MGF 1106	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)

* 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.¹

sory processes, motivation, emotion, learning, cognition, intelligence, and personality.

Science Foundations

Courses in this area include content from one or more of the items below that teach students to:

- demonstrate knowledge of the theories, laws, principles and rules of the physical and life sciences;
- demonstrate an understanding of the scientific method by applying the principles of logic to the solution of scientific problems;
- describe the human species as it has evolved over time and across cultures;
- understand the earth's living systems, their interaction, and the effects of change on them.

Substitution of Courses: General Education Program and Other Requirements

The Student Academic Support System (SASS) is coordinated by the Office of Academic Services for the evaluation of transfer courses for the University's General Education Program and Foreign Language Proficiency requirements. When the transfer course work is entered into the UCF computer system (usually during the first semester at UCF),

course descriptions and other information to provide a sufficient basis for evaluation may be requested. Courses are evaluated on the basis of equivalency with the content of the courses required by the University. The evaluation conducted is entered into a computerized SASS Degree Audit system and then is available to the colleges and departments through the University's computer network and for the student on-line access through POLARIS at <https://connect.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 Requirements

MAC 1105 (College Algebra)

ECO 2013 (Macroeconomics)

Acceptable Substitutions

MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313

Any higher level ECO course which has ECO 2013 as a prereq-

PHY 2053C (Physics)	uisite ECO 2023 (Microeconomics) PHY 2048, PHY 2049, PHY 2054C, PHY 2014C, PHY 5015C
CHM 1020 (Chemistry)	CHM 2045C, CHM 1032, CHS 1440
BSC 1005 or BSC 1050 (Biology)	BSC 2010C
GEO 1200 (Geography)	GEO 2370
CGS 1060C (Intro to Computer)	CGS 2100C, COP 2200, COP 2500C, COP 3502C, COT 3100C;
STA 2014C (Statistics)	STA 2023, STA 3032
THE 2000 (Theatre)	THE 2020
FIL 1001 (Cinema Survey)	FIL 2400, FIL 3401, FIL 3402
MUL 2010 (Enjoyment of Music)	MUH 4212

POS 4622	Politics and Civil Rights
PUP 3314	Minority Politics
SOW 3420	Social Work with Minorities
SPW 4772	Black Presence in Contemporary Latin America
SYD 3800	Sex Roles in Modern Society
SYP 4323	Social Systems and Diversity
SYP 4734	Minority Aging
SYP 4323	Social Systems and Diversity
THE 3230	Commonality within Cultural Diversity Experienced through Theater
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.

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 bachelors 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.

General Education Courses:

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

Other Courses:

AMH 3421	History of Florida to 1845
AMH 3423	Florida History 1845-Present
AMH 3562	Women in American History II
AML 3283	Contemporary American Women's Fiction
AML 3615	Harlem, Haiti, and Havana
ANT 3245	Native American Religions
ASH 4304	Women China
CCJ 4463	Cultural Diversity in Criminal Justice
CCJ 4670	Women and Crime
CJE 4174	Comparative Justice Systems
COM 4014	Gender Issues in Communication
COM 4461	Intercultural Communication
CPO 3304	Politics of Developing Areas
EDG 2701	Teaching Diverse Populations
GEO 3470	World Political Geography
JST 3401	History of the Jewish People I
JST 3402	History of the Jewish People II
LIN 4643	Cross Cultural Communication
LIN 4XXX	African-American Styles of Communication
LIT 3354	Ethnic Literature in America
LIT 3192	Caribbean Literature
MMC 4300	International Media
NUR 3809	Transitional Concepts in Nursing I
NUR 3617	Promoting Healthy Communities
NUR 3616	Promoting Healthy Families Across the Lifespan
PAD 4446	Multiculturalism in Public Administration
PLA 4020	Law and Society
PLA 4830	World Legal Systems
PLA 4XXX	Employment Discrimination
POS 3627	Cultural Plurism and LawS
POS 4323	Women and Politics

Exit Exams

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

Foreign Language Proficiency Requirement (Bachelor of Arts Degree)

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

Placement in Language Course

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

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

1. This requirement is for proficiency and not a requirement for a particular number of hours of course work. For example, successful completion of only SPN 1121 (Elementary Spanish Language and Civilization II) would satisfy the B.A. requirement. Appropriate scores on Advanced Placement and CLEP examinations will also satisfy the requirement.
2. This is a University-wide requirement for all B.A. majors.
3. The Testing Administrator of the Office of Counseling and Testing will offer the Foreign Language Proficiency Examination periodically each semester. Students must register in advance with that office to take the examination (SRC 203).
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.

SUS Foreign Language Admission Requirement

Students who have not satisfied the Foreign Language Admission Requirement (two 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 24,000 words of composition in four courses (12 semester hours) and to complete two courses (six semester 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

Undergraduate Degree Requirements

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. 12 hours of course work in which the student must complete 24,000 words of composition
- (1) Six hours of English Composition
(2) Six-hour sequence of Western Humanities, World History, U.S. History, or Western Civilization

All literature and composition courses taught by the Department of English, and each of the courses listed below fulfill 6,000 words of the composition portion of the "Gordon Rule" Requirement.

Additional specific upper level courses also may be used to meet the Gordon Rule composition requirement. Consult OASIS for information.

ADV	4101	Adv Copy and Campaigns
JOU	3100	News Reporting
JOU	4302	Editorial/Column Writing
JOU	4310	Freelance Writing
JOU	4300	Feature Writing
JOU	4104	Public Affairs Reporting
JOU	4306	Critical Writing
PUR	4800	Public Relations Campaigns
RTV	3501	Broadcast Copywriting
RTV	3300	Broadcast Newswriting
RTV	4402	Broadcast Criticism
THE	4072	Principles of Motion Picture Art

Each of the courses listed below fulfill 3,000 words of the composition portion of the "Gordon Rule" Requirement.

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	4140	Jeffersonian America
AMH	3540	Military History
AMH	3560	Women in American History
AMH	3571	Black American History
AMH	3800	Canadian History
AMH	4110	Colonial America, 1607-1763
AMH	4130	The Age of the American Revolution, 1763-1789
AMH	4170	Civil War and Reconstruction
AMH	4160	Jacksonian America
AMH	4201	Robber Baron Era
AMH	4231	United States History: 1914-1945
AMH	4270	United States History: 1945-Present
AMH	4311	American Culture I
AMH	4313	American Culture II
AMH	4510	Rise of the US to World Power, 1776-1914
AMH	4511	US as a Great Power: 1914-Present
ANT	3145	Archae of Complex Soc
ANT	3162	Archae of Mid and S.Am
ANT	3163	Mesoam Arch
ANT	3168	Maya Arch
ANT	3930	Seminar in Arch Meth
ARH	4350	Baroque Art
ARH	4430	19th Century Art
ARH	3456	Art After 1945
ARH	4450	20th Century Art
ARH	4655	Meso American Art
ASH	3300	Survey of East Asia
ASH	4404	China in 19th and 20th Centuries
ASH	4442	Modern Japan, 19th and 20th Centuries
EUH	3122	Medieval Society and Civilization
EUH	3142	Renaissance and Reformation
EUH	3235	Romanticism and Realism
EUH	3242	Modern Europe of the First World War
EUH	3281	Second World War and Rebirth of Europe
EUH	3411	Ancient Rome
EUH	3651	War and Society
EUH	4284	Facisim and the Totalitarian Dictatorships

EUH	3451	History of Modern France
EUH	4461	Rise of Modern Germany
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	4530	British Empire and Commonwealth
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
EUH	4621	War and International Politics in Europe 1914-Present
HIS	4150	History and Historians
HUM	3431	Ancient Humanities
JOU	4300	Feature Writing
JOU	4181	Public Affairs Reporting
JOU	4306C	Critical 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
PHH	3100	Ancient Philosophy
PHI	2630	Ethics
PHI	3800	Aesthetics
PHI	3803	Philosophy and Creativity
PLA	3155	Legal Writing
RTV	4403	Electronic Media, Technology and Society
SOW	3104	Assessing I: Human Development
SYP	3400	Social Change

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 course work. All students seeking an Associate of Arts or baccalaureate degree from a State of Florida Institution are required by the State to satisfy the CLAST requirement. There are several methods by which students may meet this requirement, but applicants for teacher certification may only satisfy the CLAST by earning passing scores on each subtest. Students who have completed 18 or more semester hours are eligible to take CLAST.

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 term at UCF. If a student has not met the CLAST requirement by the completion of 36 upper division semester hours, enrollment in future terms at UCF will be restricted until the CLAST requirement has been satisfied.

Students with 60 or more hours of credit who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of CLAST may enroll in 36 semester hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met. An appeal to continue enrollment may be submitted to the CLAST Waiver Committee (PH 107).

CLAST is offered statewide once per term. Students must register in advance at the Student Academic Resource Center (PH 115) or at the Registrar's Office (MH 161). Additionally, students may retake the English Language Skills, Reading, and/or Mathematics subtests on computer at the Counseling and Testing Center/Test Office, SRC 212. A fee will be charged for the computer-adapted CLAST. Information regarding preparation for the CLAST or Alternative criteria for meeting the CLAST requirement may be obtained from the Student Academic Resource Center (PH 115); 407-823-5130. Academic advising offices within each college and Academic Support and Advising Programs also can answer questions students may have.

CLAST Waiver Petitions for Students with Disabilities

Students with disabilities may request reasonable accommodations while taking the CLAST. Those who are unable to pass a sub-test of the CLAST due to a disability may request that a sub-test of the CLAST be waived. The student must be registered with the Student Disability Services Office (SRC 132) and have on file documentation of his or her disability. Contact Academic Support and Advising Programs (PH 107) to complete a petition to waive a CLAST sub-test. 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, call Academic Support and Advising Programs at 407-823-6630.

Summer Attendance Requirement

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

Graduation Application Deadline

Students planning to graduate in the next term must complete the "Intent to Graduate Form" in their college during Registration for their last term (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 semester may not be listed in the *Commencement Program*. Graduating students must be enrolled at UCF during the term of graduation. Graduates may contact the Registrar's Office for Commencement ceremony and guest ticket information or refer to <http://graduation.ucf.edu>.

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

Correspondence Courses

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

In 1996, the State revised the General Provisions Rule 64-4.002, at the Bureau of Teacher Certification for the State of Florida. Any teacher in the state now can use credit correspondence courses, as appropriate, to apply toward the recertification of the teaching

license. Moreover, there is no limit to the number of courses that may fulfill the requirements.

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

Double Majors

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

Double Degrees/Second Baccalaureate Degree

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

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

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

Catalog Year Requirements for Double Degrees and Double Majors

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

Dual Usage of Credit Hours

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

ACADEMIC REGULATIONS AND PROCEDURES

Registration Policies

During each academic term, registration is held for all new, currently enrolled, degree-seeking and non-degree seeking students for the following term. Registration sessions consist of Registration and Late Registration (held during the first week of classes for each term). 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 POLARIS Class Schedule Search at <https://connect.ucf.edu>.

Registration is available over the web using the POLARIS system at <https://connect.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.ucf.edu/toplinks/academic_calendar.html.

Schedule Web Guide

The *Schedule Web Guide* is published online twice each year: the Summer/Fall edition and the Spring edition. The *Schedule Web Guide* provides the official "Academic Calendar" and describes the policies and procedures governing registration each term. The *Schedule Web Guide* is distributed through the colleges, schools, and departments, by the Registrar's Office, and is available on the Registrar's web page at <http://registrar.ucf.edu>.

Terms and Credit Hours

The University of Central Florida academic schedule consists of two semesters (Fall and Spring), and the Summer term. The graduation credit value of each course of instruction is stated in terms of semester 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
Half Time	6-11
Less Than Half Time	less than 6

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

Credit Hour Limits

Undergraduate students are limited to 17 credit hours each term. The department chair and college advising office must approve overrides. Overrides may be processed at the college advising offices. Graduate students are limited to 17 credit hours (15 for some programs in Health and Public affairs) each term. Departments must approve overrides added at the college advising offices. Doctoral students must register for a minimum of nine credit hours for two contiguous terms to meet the doctoral residency requirement.

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 POLARIS system at <https://connect.ucf.edu>. To obtain an immediate release for financial holds, payment to the Cashier's Office must be made either in cash, credit card, cashier's check, or money order.

Add/Drop Policy

Add/Drop is the period following their initial registration when students may make class schedule adjustments through the first three to five days of each term (as listed in the "Academic Calendar"). Add/Drop may be done using the POLARIS system (<https://connect.ucf.edu>) and in the college advising offices. After the Add/Drop period, no course may be added. Courses meeting for the first time after the end of Add/Drop may be dropped the next business day in the Registrar's Office, MH 161. For withdrawal after the Add/Drop period, refer to the "Withdrawal Policy" of this *Undergraduate Catalog*.

Audit Registration

Audit students are those who desire to attend class(es) without receiving academic credit. Regular tuition and fees are assessed for audit registration. See the "2002-2003 Tuition and Fees Schedule" in the "Financial Information" section of this *Undergraduate Catalog*. Audit registration is on a space-available basis at the prescribed time of Registration, or at any time during Late Registration and Add/Drop when Late Registration fees will apply. Audit requests for students who register prior to this time will be denied. Students may not change to audit status after Late Registration and Add/Drop, but must remain in the course or withdraw through normal withdrawal procedures. New students must be accepted for admission. Audit forms, available on the Registrar's website and in the Registrar's and college advising offices, must be signed by the instructor and presented to the Registrar's Office at the time of registration.

Senior Citizen Audit

Senior Citizens (60 years of age or older) who have been residents of the State of Florida for at least one year as of the first day of classes, may enroll tuition free as audit students (i.e., no academic credit) on a space-available basis. Forms to be completed include the "Residency Affidavit," the "Student Health History," and the "Senior Citizen Audit Application." and "Senior Citizen Audit Registration Form" These forms are available in the Registrar's Office (MH 161) or at the Registrar's web site: <http://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.ucf.edu/toplinks/academic_calendar.html. Direct student expenses after the completion of registration include the campus ID card, vehicle registration and textbooks.

State of Florida Employee Registration

Effective with Summer 2003 term registration, State of Florida employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of Registration each term at the time specified on the "Academic Calendar," online at http://www.ucf.edu/toplinks/academic_calendar.html. For waiver eligibility and application information, see "Tuition Waivers" within the "Financial Information" chapter of this *Undergraduate Catalog*.

UCF Employee Registration

Effective with Summer 2003 term registration, UCF employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of Registration each term at the time specified on the "Academic Calendar," online at http://www.ucf.edu/toplinks/academic_calendar.html. For waiver eligibility and application information, see "Tuition Waivers" within the "Financial Information" chapter of this *Undergraduate Catalog*.

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

State of Florida employees and State Tuition Exemption Program (STEP-National Guard) students register on a space-available basis only. State employees are required to submit the "State Employee Tuition Fee Waiver Form" which may be obtained from the Registrar's Office website at <http://registrar.ucf.edu>. Registration before the time specified in the "Academic Calendar" online at http://www.ucf.edu/toplinks/academic_calendar.html 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. Registration is on a space-available basis during the last hours of registration as noted in the "Academic Calendar" online at http://www.ucf.edu/toplinks/academic_calendar.html. STEP students must present a "Certification" letter to the Student Accounts Office (MH 107) to receive waiver of eligible 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 and desires to take courses with UCF. Students must complete the "SUS Transient Application Form" which is available at all SUS institutions and at <http://www.facts.org>. No application fee is required. The "SUS Transient Application Form" must be completed each term and should be mailed or delivered to the Registrar's Office (MH 161), by the application deadline noted in the "Academic Calendar" online at http://www.ucf.edu/toplinks/academic_calendar.html. Students should visit the Registrar's Office website at <http://registrar.ucf.edu> or contact the Registrar's Office for registration information at 407-823-3100.

UCF Students Attending Another State University System of Florida Institution

UCF students who desire to attend another SUS institution as a Transient Student may secure the "SUS Transient Application Form" from their college advising office, from the Registrar's Office or online at <http://www.facts.org>. The prior permission of the department, school, and college advising office is required to ensure that the courses attempted at another institution will transfer and meet the UCF Degree/General Education Program requirements.

UCF Students Attending a Non-SUS Institution

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

Enrollment and Degree Certifications

Effective with Fall 2003, students will be able to obtain their enrollment verification on-line at www.degreechk.com. Parents, employers, background checking firms, and other third party agencies may request enrollment and degree verifications on-line at www.degreechk.com. UCF has contracted with Credentials, Inc. to provide current enrollment, degree and past attendance verifications on-line 24 hours a day, seven days a week. Credentials, Inc. Customer Service is available at 1-847-446-1027, ext. 104 between 8:30 a.m. and 5:00 p.m. CST/CDT Monday through Friday.

Withdrawal Policy

Withdrawal for each term begins after "Late Registration and Add/Drop" ends. Students may withdraw from a class and receive the notation of "W" until the date noted in the "Academic Calendar" online at http://www.ucf.edu/toplinks/academic_calendar.html. A student may withdraw from courses using POLARIS at <https://connect.ucf.edu>, or by visiting the Registrar's Office (MH 161), certain college advising offices, or an area campus records office. Students may withdraw by fax at 407-823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student's identification number, the course(s) to be dropped and his or her signature. Students also may send a written request to the Registrar's Office by mail (to P.O. Box 160114, Orlando, FL 32816-0114). This letter must be time-stamped or postmarked before the published withdrawal dead-

line and must include the student's identification number, the course(s) to be dropped and his or her signature. Students seeking to withdraw in person must sign the request and must provide photo-identification. The official date of withdrawal is the date the University receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal.

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

No withdrawal is permitted after the deadline except in extraordinary circumstances such as serious medical problems. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Students seeking to petition for a late withdrawal should consult Academic Services (MH 210). At the time of the request, Academic Services will ascertain from the instructor whether the student was passing or failing the course. If the student was passing, a "WP" will be recorded on the student's permanent record; if failing, a "WF" will be entered. Medical and late withdrawals normally are for all courses taken in the semester.

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

If a medical withdrawal is approved, a "WM" will be recorded for each course. Students who receive a medical withdrawal may be placed on hold until the University can determine that the student is ready to return. If a medical withdrawal is not approved, the request may be approved as a late withdrawal and grades of "WP" or "WF" will be recorded. A grade of "WF" will affect the calculation of the student's grade point average.

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

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

Withdrawal and Academic Behavior Violations

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

Academic Regulations and Procedures

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 ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014.

Other Actions	Grade Points
I	Incomplete -
N	No grade reported by instructor (followed by grade) -
R	Repeated course (Grade Forgiveness)
S	Satisfactory (w/credit)/Satisfactory Progress (Research, Thesis, or Dissertation) -
T	(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 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 semester hours attempted, less hours resulting from NC, W, WP, and I grades.** The GPA for graduation requirement is a minimum UCF 2.0 ("C").

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

1) Multiply the number of semester 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 semester hours X 3.25 grade points	=	9.75
+ Course #2	A-	3 semester hours X 3.75 grade points	=	11.25
+ Course #3	A	4 semester hours X 4.00 grade points	=	16
+ Course #4	B	3 semester hours X 3.00 grade points	=	9
				<hr/>
	=	13 semester hours		46
				total grade points

2) Divide the total number of grade points by the total number of semester hours earned that term:

46.00 total grade points / 13 semester hours = 3.54 GPA for that term.

Overall 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 overall grade point average entering this term would be $162/54=3.00$. Including this term of coursework, the overall grade point average would be $(162 + 46) / (54 + 13) = 3.10$.

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

Incomplete Grade

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

Grade Change

A grade change is the change of any originally assigned grade to another grade, including grades of "I" and grades earned by administrative withdrawals. Grade changes other than medical withdrawals will be considered only during the semester immediately following the one in which the grade was assigned, except that grades assigned during the Spring semester may be changed during either the following Summer term or Fall semester. A change in grade must be approved by the dean of the college or school. A grade will not be changed after a degree has been conferred. The Registrar will change a student's academic status if necessitated by a change of grade, except in cases of academic suspension. If a student is suspended, the Admissions and Standards Committee may review the suspension and readmit the student if the committee decides readmission is warranted.

Grade Reports

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

Attendance, Absences, or Unsatisfactory Work

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

Students also should be excused for participation in official University-sponsored activities, such as music performances, athletic competition, or debate. Students chosen for such events, including intercollegiate athletics, band, choir, and academically related programs, shall be listed on a "Program Verification" form. Program Directors shall provide each student with a copy of this form. It is the student's responsibility to present a copy of this form to the faculty member(s) responsible for the class from which the student will be absent. This verification is to be provided prior to the class period when possible and no later than the first class following the event. A copy of the form listing students selected to represent the University and signed by the Program Director shall be filed with the Office of Student Rights and Responsibilities (SRC 155). If further verification is needed, contact the Office of Student Rights and Responsibilities (SRC 155; 407-823-2851) or for athletic events only, Academic Services for Student-Athletes WDSC 123B; 407-823-3761.

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

Classroom Responsibility

Students are responsible for maintaining classroom decorum appropriate to the educational environment. When the conduct of a student or group of students varies from acceptable standards and

becomes disruptive to normal classroom procedures, the instructor has the authority to remove the offending party from the room and refer the student to the Office of Student Conduct (SRC 155) for disciplinary action.

Student Conduct

Students are subject to federal and state laws and local ordinances as well as regulations prescribed by the University of Central Florida and the Florida Board of Governors. The breach or violation of any of these laws or regulations may result in disciplinary action. 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 (SRC 154) to consider eligibility for admission.

Religious Observances

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

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 Rule 6C7-5.0031, Student Grievance Procedure, as listed in *The Golden Rule*.

Student Classifications

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

Freshman: 0-29 semester hours.

Sophomore: 30-59 semester hours.

Junior: 60-89 semester hours.

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

Post-Baccalaureate:

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

Graduate:

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

Other Student Classifications:

Auditor:

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

Co-op Student:

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

Special Student:

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

Temporary:

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

Transient:

Students temporarily registered (for one semester) at UCF with the

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

Limited Non-Degree Seeking:

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

Provisional:

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

Academic Honors

President's Honor Roll Certificate

The President's Honor Roll Certificate is awarded in recognition of scholastic honors to regular undergraduate students who register for and complete 12 or more hours, excluding satisfactory/unsatisfactory course work, and who maintain a 4.0 GPA with no "I" or "U" grades for the given term or who complete 15 semester hours during any two consecutive semesters/term at UCF with no more than 11 hours in any one term, excluding satisfactory/unsatisfactory work, and who maintain a 4.0 GPA for the two semesters/term with no "I" or "U" grades. 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 for students who earn a minimum 3.4 GPA with no grade less than "C" (2.0) and no "I" or "U" grades during a term. To be eligible for the Dean's List, students must register for and complete a minimum of 12 credit hours in a Fall or Spring semester or nine credit hours in a Summer term at UCF.

Baccalaureate Honors

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

1. Attain an overall grade point average 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 3.2 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.

Grade Forgiveness

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

1. Grade Forgiveness is limited to **two** courses;
2. Grade Forgiveness **may not** be used twice for the same course;
3. Grade Forgiveness will only be awarded if the original and repeated courses both are taken at UCF;
4. All grades will remain on the student's official transcript. The original course grade will be marked with a "T" to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an "R." The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;

Academic Regulations and Procedures

- 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;
- If a student applies for Grade Forgiveness and later withdraws, or receives and "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.
- 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. UCF's Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations;
- 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;
- 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;
- 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,
- With prior approval from the Dean's office in which the course is offered, a student may substitute a course different from the original one if: 1) the substitute course reflects a change in prefix, number, hours, or title but not in substance; or 2) the substitute course replaces a course no longer offered by UCF.

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

Academic Standing

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

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. A disqualified student **must** submit an application for readmission supported by a letter indicating the reasons for previous academic difficulties and plans for achieving a GPA of 2.0 or better. The total record will be reviewed and action on readmission will be taken by the University Registrar. When the University Registrar can not make a favorable decision, cases will be referred to the Admissions and Standards Committee. **Any Disqualified student whose UCF grade point deficiency is equal to or greater than 15 grade points is not eligible for readmission** (unless in the opinion

of the Admissions and Standards Committee there are documented extenuating circumstances). For readmission purposes only, the term "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 cumulative UCF grade point average to 2.0.

Exclusion (Second Suspension or more)

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

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.

Earning Credit While Disqualified or Excluded

Students disqualified or excluded while a freshman or sophomore who subsequently receive an A.A. or a specific statewide articulated A.S. degree with a minimum "C" average (2.0 GPA) on all college work attempted from a Florida public community college may be readmitted to the University with credit earned in accordance with standard University policies. Students who attend other colleges or universities following disqualification will be classified as transfer students and their readmission will be based on their total educational record.

Readmission

Readmission Following Separation

A student must submit a "Readmission Application Form" to the Registrar's Office if the student has been academically suspended from UCF (see 'Readmission Following Suspension' below) or if the student has not enrolled at UCF for two consecutive semesters (not including the Summer term). The Readmission application is available at the Registrar's Office (MH 161) or on the web at <http://registrar.ucf.edu>. Deadlines for submitting applications can be found in the "Academic Calendar," online at http://www.ucf.edu/toplinks/academic_calendar.html. The application deadline for "Readmission as an Exception to University Policy" is as follows: for Summer, **April 15**; for Fall, **July 15**; and for Spring, **November 15**.

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. 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. Contact the Registrar's Office (MH 161) for eligibility requirements. Plus or minus grades will transfer for course work earned Fall 2001 and after using UCF's grade point system.

Any readmitted student whose UCF cumulative 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.

A student who has previously attended UCF as "degree-seeking" and who desires to pursue a second bachelor's degree must apply by completing the "Readmission Application Form." If the student still is actively enrolled in the University, the student will not be subject to the readmission process and the enrollment status will be updated to "second-degree seeking."

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

A student who has been academically disqualified by UCF (grade point deficiency less than 15 grade points) who has completed the two semester academic suspension period may petition for reinstatement by submitting the "Readmission Application Form" to the Registrar's Office. For readmission purposes only, the term 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. The petitioning student must satisfy the following requirements before a decision will be made. The student must:

1. Submit a written statement indicating the reason for the previous academic difficulties and a plan for ensuring success in future semesters:
 - a. The written statement should be limited in length to one typed page; it must be signed and dated, and **must** include the student's UCF Identification number;
 - b. A "Readmission Application Form" not accompanied by the required written statement **will not** be reviewed, nor will it be forwarded to the Admissions and Standards Committee;
2. Contact the major's department/school/college to establish a plan to complete the program of study. The student must obtain the department/school/college's favorable recommendation of this plan in writing; and,
3. Submit transcripts from all other schools attended during suspension (if applicable).

The Registrar's Office will process the readmission petition only when it receives **all** of the documents listed above. The Registrar's Office may elect to forward the student's petition to the Admissions and Standards Committee. If the Admissions and Standards Committee reviews the file, the student will be afforded the opportunity to personally appear before the Committee before it renders a decision.

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 (grade point deficiency less than 15 grade points) who **has not completed** the academic suspension period may petition for reinstatement by submitting the "Application for Readmission as an Exception to University Policy Form" to the Registrar's Office. For readmission purposes only, the term 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. The Registrar's Office will forward all petitions directly to the Admissions and Standards Committee. The petitioning student must satisfy the following requirements before the Registrar's Office will forward the request to the Committee. The student must:

1. Submit a written statement indicating the reasons for the previous academic difficulties and a plan for ensuring success in future terms. This statement must provide significant information supporting the student's request to readmit prior to completing the full suspension. The Committee will approve the request only if the documented information provided indicates that the reasons for the student's poor academic performance were beyond the student's control:
 - a. The written statement should be limited in length to one typed page, it must be signed, dated, and include the student's UCF Identification number;
 - b. A "readmission prior to completion of suspension" petition not accompanied by the required written statement will not be forwarded to the Admissions and Standards Committee;
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;
3. Submit transcripts from all other schools attended during suspension (if applicable); and,
4. Order one official copy of the UCF transcript. The Registrar's Office will forward this transcript to the Admissions and Standards Committee.

Students should ensure that the written statement and supporting documents contain all information required to support the petition for early reinstatement as they are not afforded a personal appearance before the Committee.

Disqualified students are limited to **one** readmission appeal during the disqualification period.

Readmission Following Disqualification (with a Grade Point Deficiency of 15 or more Grade Points) or Following Exclusion

Students who are disqualified (grade point deficiency of 15 grade points or more) or who have been excluded **are not eligible for readmission to the University**. For readmission purposes only, the term 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. Exception to this policy may be approved in rare cases by the Admissions and Standards Committee where the reason for the poor academic performance was due to documented extenuating circumstances.

A student who believes this to be the case must:

1. Submit a written statement specifying the extenuating circumstances that lead to their poor academic performance or academic dismissal.
 - a. The written statement should be limited in length to one typed page; it must be signed and dated, and **must** include the student's UCF Identification number;
 - b. Documents which support and or verify the extenuating circumstances,
 - c. A "Readmission Application Form" not accompanied by the required written statement **will not** be reviewed, nor will it be forwarded to the Admissions and Standards Committee; and,
 - d. Transcripts from all other schools attended during suspension (if applicable).

Withdrawing During Readmitted Term

Disqualified or excluded students who drop or withdraw from all courses during the readmitted semester for whatever reason must apply for readmission.

Limitations on the Number of Readmission Petitions

Disqualified students are limited to **one** readmission appeal during their disqualification period. Excluded students are limited to **one** readmission appeal **per 12 month period**.

Non-Academic Admission Clearances

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

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 petitions from: 1) persons denied admission; 2) former students seeking Readmission

Academic Regulations and Procedures

as an Exception to University Policy following academic disqualification or exclusion; 3) students requesting to continue in school, but who have failed to meet CLAST requirements; and 4) students appealing prior decisions rendered by the Admissions and Standards Committee.

Right of Appeal

Each person whose petition has been denied by the Admissions and Standards Committee may request that the Committee reconsider its original decision regarding such petition but the Admissions and Standards Committee is not obliged to grant such request. To appeal any Admissions and Standards Committee decision under this policy, the appellant **must** submit a written request that the Admissions and Standards Committee consider reviewing its original decision in light of new and compelling evidence that was not known or reasonably could not have been known by the appellant at the time the original petition was considered. The new and compelling evidence must be documented to the satisfaction of the Admissions and Standards Committee, and such documentation must be attached to the appeal.

The appeal should be limited in length to one typed page; it must be signed, dated, and include the appellant's UCF Student Identification Number. Appeals that do not satisfy the content and format requirements defined in this section will not be considered by the Admissions and Standards Committee.

The appeal will be submitted to:

Chair, Admissions and Standards Committee
Division of Student Development and Enrollment Services
University of Central Florida
4000 Central Florida Blvd.
Millican Hall 282
Orlando, FL 32816

Upon receipt of both the appeal and all required supporting documentation, the Admissions and Standards Committee will consider whether or not to review its original decision. The Admissions and Standards Committee will advise the appellant of its decision, which is final.

Athletic Retention and Eligibility Committee

The Athletic Retention and Eligibility Committee (AREC) 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 AREC. The committee shall review each applicant's academic potential and current status and determine conditions for the individual's degree of continued participation in intercollegiate athletic activities.

Name Changes

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

Address and E-Mail Changes

The student's address is obtained from the "Application for Admission or Readmission." It is the students' responsibility to make appropriate changes to the address. "Address Change" forms may be obtained from the Registrar's website (<http://registrar.ucf.edu>), college advising office, or from the Registrar's Office (MH 161). Address and e-mail changes can be made in the Registrar's Office or on POLARIS (<https://connect.ucf.edu>). Address and e-mail changes also can be made by writing the Registrar's Office, P.O. Box 160114, Orlando, FL 32816-0114 or fax to 407-648-5022. Written requests must be signed and the student number provided.

Transcript Requests

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

A \$5 per transcript charge is assessed for each transcript request. Payment for official transcripts is required **at the time of request** and may be satisfied by cash, check or money order (made payable to UCF), credit card, or UCF Card. Requests received by mail must be accompanied by a check, money order, or credit card information (i.e., card type, card number, 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://registrar.ucf.edu> or call 407-823-3100. Transcripts may be sent electronically to other Florida public institutions.

Unofficial transcripts are available from the UCF kiosk outside the Registrar's Office (MH 161). Grades are available from POLARIS at <https://connect.ucf.edu>.

Third Attempt Course Repeat Surcharges

All students enrolled in undergraduate courses for the Fall 1999 semester and beyond are subject to an additional surcharge fee when they enroll in the same undergraduate college credit course three or more times. Completed courses, withdrawals, and courses with incomplete grades are counted as attempts, including courses repeated in order to raise the GPA or to achieve a specific grade. Courses that specify they may be repeated for credit are exempt. Students seeking exemptions for extenuating circumstances or financial hardship may submit a written petition with documentation to the Fee Appeals Committee, Student Accounts Office (MH 107).

Exemptions to the third attempt surcharge will be considered through a Fee Appeal Process.

Exceptions to the repeat course fee requirement shall be based only on extenuating circumstances, or financial hardship.

Extenuating Circumstances

Those circumstances determined by the University to be exceptional and beyond the control of the student. These may include, but not be limited to, the following:

- 1) Medical condition or serious illness preventing completion;
- 2) Death of an immediate family member;
- 3) Involuntary call to active duty; or
- 4) Other emergency circumstances or extraordinary conditions.

Special Limitation: students who withdraw or fail a class due to extenuating circumstances may be granted an exemption only once for each class.

Financial Hardship:

Should include, but not be limited to, the following:

- 1) Qualification for federal need-based financial aid; or
- 2) Other documented financial hardship may be considered.

For details, contact the Student Accounts Office (MH 107) at 407-823-2433.

Major and Minor Changes

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 (including the Rosen School of Hospitality Management) 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 website at <http://registrar.ucf.edu>. 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.

Minors

A minor is a complement to a bachelor's degree program/major requiring at least 18 credit hours in a field. A student may declare a minor **at any point during the first term of enrollment up to but no later than the submission of the "Intent to Graduate Form."** **Students strongly are urged to declare a minor as early as possible.** Minors are optional unless required by your specific major. All graduation requirements (i.e., the minor and major) must be from a single UCF catalog for which a student is eligible. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second degree is earned, certification will not be made at a later time even if additional courses have been completed. The "Undergraduate Minor Declaration/Change Form" is available at the college and school advising offices. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

Student Records

Student records submitted become the property of the University and cannot be returned to the student or released to a third party. Copies of student records will be released only upon receipt of a written request signed by the student. Student records are stored in paper form or are digitally scanned. Once the student has been absent from the University for three academic years, all records are transferred to optical disk storage and the paper copies destroyed.

Family Educational Rights and Privacy Act (FERPA)

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

1. The right to inspect and review the student's education records within 30 days of the day the University receives a written request for access. Students should submit to the University Registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they desire to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed;
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.

The student may ask the University to amend a record that he or she believes is inaccurate or misleading. The student should write the University official responsible for the record, clearly identify the part of the record to be changed, and specify why the current record is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student

when notified of the right to a hearing;

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility; and

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by a State University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington DC, 20202-4605

Directory Information

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

- name
- current mailing address
- telephone number
- e-mail address
- date of birth
- major field of study
- dates of attendance
- enrollment status
- degrees and awards received
- participation in officially registered activities and sports
- athletes' height and weight.

All other student information will be released in accordance with FERPA; in most cases this requires the student's prior written and signed consent. The University extends to students the opportunity to withhold any or all information, including "directory information." To do this, students must complete the "Directory Disclosure/ Release Authorization" form available at the Registrar's Office (MH 161) or online at <http://registrar.ucf.edu>, requesting that this information be withheld. *The Golden Rule* outlines the University procedures for confidentiality. For additional information describing FERPA policy, enter the Department of Education Family Policy Compliance Office website at <http://www.ed.gov/offices/OM/fpco/>.

Higher Education Act

Lists, descriptions, and sources of information required for disclosure under the Higher Education Act may be obtained from the Registrar's Office (MH 161) or from <http://pegasus.cc.ucf.edu/~enrsrv/registrar/HEA.html>.

Accelerated Education Opportunities

The University of Central Florida provides a number of options by which students may shorten the time required to complete the baccalaureate degree. These options permit the University to recognize high levels of academic achievement and acquisition of knowledge prior to or during attendance at the University. Procedures that may be used include the Advanced Placement Program (AP), the College Level Examination Program (CLEP), University Course Credit by Examination, DANTES, and the International Baccalaureate. A maximum of 45 semester 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.

Academic Regulations And Procedures

ADVANCED PLACEMENT EXAMS

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	Same as 3	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 & CHM 2045L	CHM 2045C and CHM 2046 & 2046L	SCI Found 1
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&2
English Literature and Composition	ENC 1101	COM Found 1	ENC 1101 and 1102	Same as 4	COM Found 1&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 & HIS Found 1
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 1400		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				
Physics B	PHY 2053C	SCI Found 1	Same as 3 PHY 2053C and PHY 2054C	Same as 3 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
Statistics	STA 2014	MAT Found 2	Same as 3	Same as 3	MAT Found 2
Studio Art: Drawing Portfolio	No direct equivalent		Same as 3	Same as 3	
Studio Art: 2-D Design Portfolio	No direct equivalent		Same as 3	Same as 3	
Studio Art: 3-D Design Portfolio	No direct equivalent		Same as 3	Same as 3	
United States History	AMH 1000		AMH 2010 and 2020	Same as 4	CUL & HIS Found 1
World History	WOH 2022	CUL & HIS Found 1	Same as 3	Same as 3	CUL & HIS Found 1

INTERNATIONAL BACCALAUREATE

Exam	4 (Diploma holders only)	GEP Usage	5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)	GEP Usage	6-7 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)	GEP Usage
Biology	BSC 1005/1005L	SCI Found 2	BSC 1005/1005L and BSC 2010C	SCI Found 2	Same as 5	SCI Found 2
Chemistry	CHM 1020 & 1020L	SCI Found 1	CHM 1020/1020L and CHM 2045C	SCI Found 1	Same as 5 Same as 5	SCI Found 1
Computer Science	CGS 1078	MAT Found 2	CGS 1078 (6 Credits)	MAT Found 2	Same as 5	MAT Found 2
Design Engineering	ETI 1410		ETI 1410 (6 Credits)		Same as 5	
Economics	ECO 1000		ECO 2013 and ECO 2023	SOC Found 1	Same as 5	SOC Found 1
English A1	ENC 1101	COM Found 1	ENC 1101 and ENC 1102	COM Found 1&2	Same as 5	COM Found 1&2
Environmental Systems	ISC 1050	SCI Found 2	ISC 1050 (6 credits)	SCI Found 2	Same as 5	SCI Found 2
Further Mathematics (Advanced Mathematics)	MHF 1202		MHF 1202 and MHF 1209		Same as 5	
Geography	GEA 1000		GEO 1200 and GEO 1400	SCI Found 2	Same as 5	SCI Found 2
History	WOH 1030	CUL & HIS Found 1	WOH 1030 and WOH 1999	CUL & HIS Found 1	Same as 5	CUL & HIS Found 1
Math Methods	MAC 1105	MAT Found 1	MAC 1105 and MAC 1140	MAT Found 1	MAC 1140 and MAC 2233	MAT Found 1
Math Studies	MAT 1033		MAT 1033 and MGF 1106	MAT Found 1	Same as 5	MAT Found 1
Mathematics	MAC 1147	MAT Found 1	MAC 1147 and MAC 2233	MAT Found 1	MAC 2233 and MAC 2311	MAT Found 1
Music	MUL 2010	CUL & HIS Found 2	MUL 2010 and HUM 1999	CUL & HIS Found 2	Same as 5	CUL & HIS Found 2
Philosophy	PHI 1999	CUL & HIS Found 2	Same as 4	CUL & HIS Found 2	Same as 5	CUL & HIS Found 2
Physics	PHY 1020C	SCI Found 1	PHY 1020C and PHY 1009	SCI Found 1	PHY 2053C and PHY 2054C	SCI Found 1
Psychology	PSY 2012	SOC Found 2	PSY 2012 and additional course determined by institution.	SOC Found 2	Same as 5	SOC Found 2
Social Anthropology*	ANT 2410	SOC Found 2	ANT 2410 and additional course determined by institution.	SOC Found 2	Same as 5	SOC Found 2
Theatre Arts	THE 2000	CUL & HIS Found 2	THE 2000 and HUM 1999	CUL & HIS Found 2	Same as 5	CUL & HIS Found 2
Visual Arts	ARH 1999	CUL & HIS Found 2	ARH 1999 & HUM 1999	CUL & HIS Found 1 CUL & HIS Found 2 CUL & HIS Found 1	Same as 5	CUL & HIS Found 1 CUL & HIS Found 2 CUL & HIS Found 1

* This use for General Education applies only to I.B. credit.

Advanced Placement Program (AP)

See Table, page 60.

Students who have participated in the Advanced Placement Program in high school and have received a score of 3, 4, or 5 on the national examinations will receive college credit in the appropriate subject areas. Students should consult their high school guidance counselor or write to the Educational Testing Service, Princeton, NJ 08540, for additional information. The table labeled "Advanced Placement Exams" provides information related to Advanced Placement examination areas and subtest areas for which credit may be awarded

Advanced Placement Language (all modern languages)

A score of 3 earns a minimum of one semester (min. 3 credits - XXX 2230 or 2200) of 2000-level language. A score of 4 or 5 earns a minimum of two semesters (min. 6 credits XXX 2230 and 2231 or XXX 2200 and 2201) of 2000-level language. No literature credit will be awarded for AP foreign language exams.

Advanced Placement Literature (all modern languages)

A score of 3 earns a minimum of one semester (min. 3 credits) of introductory literature. A score of 5 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.

AP Latin: Vergil

LNW 3660

AP Latin: Latin Literature

LNW 3700 (number unique to exam)

International Baccalaureate Program

See Table, page 60.

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 examinations. Institutions may wish to award additional credit for higher-level exams.

Language B (most common)

IB Diploma recipients (standard or higher level) earn a minimum of one semester (3 credits) of language credit at the Elementary Language II or equivalent level (usually 1121) level for a score of 4. Diploma recipients (standard or higher level) and non-diploma recipients (higher level only) who score 5-7 earn a minimum of two semesters (min. 6 credits) of Elementary Language II and Intermediate Language I or their equivalents (usually 1121/2200) level. No literature credit will be awarded for International Baccalaureate Language B exams.

Language A2 (language and literature courses for highly proficient speakers; uncommon in Florida)

No direct equivalent. Content of Language A2 varies widely. Minimum 3 credits language or literature for score of 4 (Diploma holders only), 6 credits of language or literature for a score of 5-7 (all exams for diploma holders, higher level exams only for others).

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 (Diploma holders only), 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

IB Latin

LNW 3701. 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 (Diploma holders only), 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

	"C"-level pass.	GEP Usage	"B"-Level Pass	GEP Usage
Accounting, Principles of	ACG 1001		Same as "C"	
Algebra, College	MAC 1105	MAT Found 1	Same as "C"	MAT Found 1
Algebra-Trigonometry, College	MAC 1147	MAT Found 1	Same as "C"	MAT Found 1
American Government	POS 2041	SOC Found 1	Same as "C"	SOC Found 1
American Literature	AML 1000	CUL & HIS Found 2	AML 2010 and 2020	CUL & HIS Found 2
Biology, General	BSC 1005	SCI Found 2	Same as "C"	SCI Found 2
Business Law, Introduction to	BUL 1241		Same as "C"	
Calculus with Elementary Functions	MAC 2233	MAT Found 1	Same as "C"	MAT Found 1
Chemistry, General	CHM 1020	SCI Found 1	Same as "C"	SCI Found 1
Educational Psychology, Introduction to	EDP 1002		Same as "C"	
English Composition with Essay	ENC 1101	COM Found 1	Same as "C"	COM Found 1
English Literature	ENL 1000	CUL & HIS Found 2	ENL 2012 and ENL 2022	CUL & HIS Found 2
History of the United States I: Early Colonizations to 1877	-		AMH 2010	CUL & HIS Found 1
History of the United States II: 1865 to Present	-		AMH 2020	CUL & HIS Found 1
Human Growth and Development	-		DEP 2004	
Information Systems and Computer Applications	CGS 1077	MAT Found 2	Same as "C"	MAT Found 2
Macroeconomics, Principles of	-		ECO 2013	SOC Found 1
Management, Principles of	MAN 2021		Same as "C"	
Marketing, Principles of	MAR 2011		Same as "C"	
Mathematics, College	MGF 1107	MAT Found 1	Same as "C"	MAT Found 1
Microeconomics, Principles of	-		ECO 2023	SOC Found 1
Psychology, Introductory	-		PSY 2012	SOC Found 2
Sociology, Introductory	SYG 2000	SOC Found 2	Same as "C"	SOC Found 2
Trigonometry	MAC 1114	MAT Found 1	Same as "C"	MAT Found 1
Western Civilization I: Ancient Near East to 1648	-		EUH 2000	CUL & HIS Found 1
Western Civilization II: 1648 to Present	-		EUH 2001	CUL & HIS Found 1

Academic Regulations and Procedures

College Level Examination Program (CLEP)

See Table page 61.

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 semester 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 semester in which the CLEP examination is taken.

The table labeled "College Level Examination Program" provides information related to the CLEP examination areas and subtest areas for which credit may be awarded. In addition, this table delineates the minimum qualifying score and the UCF course for which each examination can substitute.

CLEP Language Examinations

A score of 50 on any of the language exams earns a minimum of one semester (3 credits) of Elementary Language I or equivalent level (generally numbered 1120). A score at or above the second CLEP threshold level (currently 52 for French, 63 for German, or 54 for Spanish) earns a minimum of two semesters (6 credits) of Elementary Language I and II or equivalent level (generally numbered 1120-1121). No literature credit should be awarded for CLEP foreign language exams.

CLEP Examination Requirement for Bright Futures Scholarship Recipients

Beginning with 2002 high school graduates, Florida Academic or Merit Scholars award recipients who are admitted to and enroll in a State of Florida university or community college are required to use an acceleration mechanism that has the potential to earn college credit in each of the following five academic areas: English, Humanities, Mathematics, Natural Sciences, and Social Sciences.

The acceleration mechanisms that may be used are:

- 1) College Level Examination Program (CLEP) attempts. The student may attempt up to five CLEP examinations before college course work. A CLEP examination may be passed or failed and still satisfy one of the five attempts required by the policy. If a CLEP examination is chosen to meet one of the five attempt requirements, the exam must be taken prior to the student's registration for college courses for which credit may be earned through CLEP examinations and no later than the student's registration for the second semester of college. The State of Florida will pay for up to five CLEP examinations, whether or not the student passes the exam, providing each exam satisfies the Bright Futures requirement. If the student achieves a passing score as determined by the Statewide Articulation Coordinating Committee on any of the five CLEP examinations, UCF will award the student applicable credit toward the required hours of graduation; **or**
- 2) Earned college credit through Advanced Placement (AP) examinations, International Baccalaureate (IB) examinations, and dual enrollment courses completed in the five academic areas before high school graduation.

The student's maximum number of Bright Futures award hours will be reduced by the number of credit hours earned through CLEP, Advanced Placement and International Baccalaureate examinations and through dual enrollment courses.

It is important that students choose exams that are appropriate for meeting both general education and major program requirements. Bright Futures recipients should work closely with their First Year advisor in the assessment of AP, IB, and similar credit and in the selection of appropriate CLEP exams. The Bright Futures requirement does not apply to transfer students from community colleges or four-year universities.

For additional information regarding the Bright Futures requirement,

CAMBRIDGE AICE EXAMS

Exams	Passing score of "E" or "D"	GEP Usage	Passing score of "C", "B", or "A"	GEP Usage
Art and Design (AS-Level)	Credit at discretion of faculty; submission of portfolio recommended		same	
Art and Design (A-Level)	Credit at discretion of faculty; submission of portfolio recommended		same	
Biology (AS-Level)	none		BSC 1005/1005L	SCI Found 2
Biology (A-Level)	none		BSC 2010C	SCI Found 2
Chemistry (AS-Level)	none		CHM 1020/1020L	SCI Found 1
Chemistry (A-Level)	none		CHM 2045C	SCI Found 1
Computing (AS-Level)	CGS 1905	MAT Found 2	same	MAT Found 2
Computing (A-Level)	CGS 1907 and CGS 1908	MAT Found 2	same	MAT Found 2
Economics (AS-Level)	ECO 1000		same	
Economics (A-Level)	ECO 2013 and ECO 2023	SOC Found 1	same	SOC Found 1
English (AS-Level)	ENC 1101	COM Found 1	same	COM Found 1
English (A-Level)	ENC 1101	COM Found 1	ENC 1101/1102	COM Found 1
Environmental Science (AS-Level)	EVR 1001C	SCI Found 2	same	SCI Found 2
Geography (AS-Level)	GEA 1000		same	
Geography (A-Level)	GEO 1200 and GEO 1400	SCI Found 2	same	SCI Found 2
History (AS- or A-Level)	Three credits for each successfully passed paper, subject to institutional review		same	
Foreign Language (Language Exams, AS or A-Level)	At least one semester of language credit up to elementary II level (usually 1121)		At least one semester of language credit up to intermediate II level (usually 2201)	
Foreign Language (Literature Exams, AS or A-Level)	One semester of literature survey credit		same	
Mathematics (AS-Level)	none		MAC 1147	MAT Found 1
Mathematics (A-Level)	none		MAC 2311	MAT Found 1
Physics (AS-Level)	none		PHY 1020C	SCI Found 1
Physics (A-Level)	PHY 2053C	SCI Found 1	PHY 2053C/2054C	SCI Found 1
Psychology (AS-Level)	none		none	
Psychology (A-Level)	PSY 2012	SOC Found 2	same	SOC Found 2
Sociology (AS-Level)	none		none	none
Sociology (A-Level)	SYG 2000	SOC Found 2	same	SOC Found 2

visit the UCF Office of Academic Support and Advising Programs (ASAP) at PH 107, call 407-823-6630, e-mail at asap@mail.ucf.edu or enter its web site at <http://pegasus.cc.ucf.edu/~asap/>.

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 semester 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, page 62.

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: 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 on-line at <http://www.excelsior.edu>.

DANTES SUBJECT STANDARDIZED TESTS (DSST)

Exam Credit	Course Number (3 credits per exam)	GEP Usage	Passing Grade
Business Math	QMB 1001		C
Criminal Justice	CCJ 1000		C
Environment and Humanity	EVR 1017		C
Foundations of Education	EDF 1000		C
Fundamentals of Counseling	PCO 1202		B
Here's to Your Health	HSC 1100		C
Human Resources Management	MAN 1300		C
Human/Cultural Geography	GEO 1400		C
Introduction to Business	GEB 1011		C
Introduction to Law Enforcement	CCJ 1000		C
Lifespan Developmental Psychology	DEP 2004		B
Money and Banking	BAN 1501		C
Physical Geology	GLY 1000	SCI Found 2	C
Principles of Financial Accounting	ACG 1001		C
Principles of Physical Science I	PSC 1121	SCI Found 1	B
Principles of Statistics	STA 1014	MAT Found 2	C

EXCELSIOR COLLEGE EXAMINATIONS TABLE

Exam Title	Course Number (3 credits per course)	GEP Usage	Passing grade for credit
Abnormal Psychology	CLP 1140		B
English Composition	ENC 1101 for C	COM Found 1	C
	ENC 1101/ 1102 for B	COM Found 1	B
Ethics: Theory and Practice	PHI 1630		C
Foundations of Gerontology	GEY 1000		C
Human Resources Management	MAN 1300		C
Life Span Developmental Psychology	DEP 2004		B
Microbiology	MCB 1000		C

SPECIAL ACADEMIC PROGRAMS AND RESEARCH INSTITUTES

International Studies and Programs

Director: Mathilda E. Harris; 407-882-2300; Fax: 407-275-4386; Research Pavilion, Suite 263, P.O. Box 163105, Orlando, FL 32816-3105; <http://www.international.ucf.edu/>

Three of the University of Central Florida's five international goals are: 1) to achieve international prominence in key programs of graduate study and research; 2) to provide international focus to our curricula and research programs; 3) to become more inclusive and diverse. UCF offers a variety of programs that support these goals by educating students for global competence via internationalized courses, language offerings, internships and work experiences in internationally related areas. UCF also offers many types of study-abroad programs that meet the general education requirements and the needs of majors in all colleges. The ultimate goal of global education is to create a trans-national understanding of the social economic, cultural, environmental and political realities of the 21st Century.

The Office of International Studies (OIS) is a University level office that serves as a clearinghouse for all international programs and coordinates such programs within the University. The mission of the OIS is to create an environment that facilitates the identification, development, promotion, coordination, and support of high quality international activities related to the academic mission of UCF. The on-going development of the international dimension at UCF will be realized through the implementation of goals and objectives related to the curriculum, faculty development, policies and planning, academic support, students, the community, funding, and external agencies.

The general goals stated in the UCF Five-Year Plan for International Studies are to:

- Infuse the curriculum with international content that will teach students to think about themselves and their profession within an interdependent world context and prepare them to think globally and to be citizens in an interdependent and diverse world;
- Increase the pool of faculty with international expertise in order to have an impact upon all facets of the academic experience at UCF;
- Create an environment that encourages the development and continuation of international programs through appropriate policies;
- Identify and improve all components of academic support that are integral to internationalizing UCF;
- Build strong linkages between the international dimensions of UCF and the Orlando community;
- Develop additional methods of funding international programs and activities at UCF; and
- Monitor the activities of, and develop contacts with, external agencies relevant to the international mission of the University.

Study Abroad Programs

UCF offers a large number of study abroad programs to meet the academic and international interests of students. Overseas study prepares students in the skills needed to live and work in a global environment.

Summer Study Abroad Programs

Summer study abroad programs led by UCF faculty are currently offered in the following countries: **Caribbean, France, Germany, Italy, Japan and Spain**, College of Arts and Sciences, Department of Foreign Languages and Literatures; **France**, College of Arts and Sciences, Music Department; **Scotland**, College of Arts and Sciences, Art Department; **South Africa**, College of Health and Public Affairs; Department of Social Work; **Sweden**, College of Health and Public Affairs, Department of Nursing.

Semester and Academic Year Student Exchanges

Semester and academic year student exchange programs are open to qualifying juniors and seniors who would like to have a more extensive experience abroad. Established student exchanges are located in **Australia**, Griffith University; **Canada**, University of Windsor; **China**, Qingdao University; **France**, University of Angers; **Germany**, University of Koblenz, Ilmenau Technical University; **Japan**, Meikai University; **Jordan**, Princess Sumaya University, College for Technology; **Sweden**, Universities of Lund, Jonkoping, Mallardalen, and Dalarna; **Wales**, University of Glamorgan.

State of Florida University System Programs

The State University System (SUS) programs offer high quality and diverse study abroad experiences for students throughout the State of Florida. This gives the student the opportunity to meet students from other Florida universities and to participate in additional programs not offered directly by UCF. The SUS-wide study abroad programs are located in **England, Italy, and Costa Rica**.

National Student Exchange Program

UCF's membership in the National Student Exchange (NSE) affords qualifying juniors and seniors the opportunity to spend one semester or an entire academic year as exchange students at any of the 75 NSE membership institutions in the U.S. In many cases, students on NSE exchange also may study at one of the more than 50 study abroad sites associated with individual NSE membership institutions. This adds a wide array of opportunities to UCF's own student exchanges and programs abroad.

The Office of International Studies can advise students on programs worldwide. For additional information contact the UCF Office of International Studies; 407-882-2300.

Center for Cooperative Education and Applied Learning

Director: Sheri Dressler; PH 208; 407-823-2667

The Center for Cooperative Education and Applied Learning provides opportunities for students to gain professional practice by combining on-campus classroom study with real-world work experience.

Cooperative Education (Co-op) is an academic program and an integral part of the curriculum at UCF, available to students on all campuses in all colleges. The mission of the program is: 1) to provide a means for students to develop academic, professional, and personal competencies through experiential learning experiences; and 2) to create meaningful and productive educational partnerships with academic departments and employers locally, nationally, and internationally.

Co-op students participate for multiple terms in structured, progressively responsible, paid work assignments in industry, directly related to their major or career goal. They alternate periods of work and study, either by alternating full-time semesters of work and school, or working part time while studying full time. Co-op provides a means for students to test career goals, improve academic performance, develop discipline-related personal and professional skills, generate income, and increase prospects for full-time employment upon graduation.

The Center for Cooperative Education and Applied Learning also supports internships in collaboration with academic departments. Internships are major-related work experiences that provide similar benefits to co-op opportunities, but generally are one term in length and occur toward the end of a student's academic program.

To allow for multiple semester participation, students should apply as early as possible in their program of study. For both co-op and internship assignments, students may apply at any time during the year, but should make an effort to apply one semester before they want to participate to allow time to obtain an appropriate learning opportunity.

Division of Continuing Education

Assistant Vice President/Director: J. Patrick Wagner; Bldg #81, P.O. Box 160950, Orlando, FL 328-26-0950;

407-882-0260; Fax: 407-882-0244

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 will provide local, state, national and international clients with high quality, affordable, credit/noncredit educational programs and services. DCE clients include degree students, area professionals, K-12 students, domestic and international corporations, and local/state/federal government.

Center for Multilingual Multicultural Studies

Director: Myrna Creasman; Bldg #81, P.O. Box 163177, Orlando, FL 32816-3177; 407-823-5515; Fax: 407-823-5465

Using contemporary teaching methodology and computer-assisted instruction, the Center for Multilingual Multicultural Studies provides quality English language instruction for international students. Four

levels of instruction are offered which range from beginning to advanced, and special attention is given to preparing students for academic course work in their specialized fields of study. Full-time students enrolled at the advanced level may elect to take courses as non-degree-seeking students while enrolled in the Intensive English program. Students are required to take an entry placement test to determine their level of proficiency. Student (F-1) visas are extended to qualified applicants. The Center also offers English for Special Purposes for international business personnel.

The Center for Multilingual Multicultural Studies at University of Central Florida is accredited by the Commission on English Language Program Accreditation (CEA) and agrees to uphold the CEA standards for English Language Programs. For further information about this accreditation, please contact the Commission of English Language Program, Accreditation, 700 S. Washington Street, Suite 200, Alexandria, VA 22314, (703) 518-2480.

Off-Campus College Credit Programs

Director: Stephen Miller; Division of Continuing Education, Bldg #81, P.O. Box 160950, Orlando, FL 32816-0950; 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

Center for Applied Human Factors in Aviation (CAHFA)

Director and Chief Scientist: Jefferson M. Koonce; 407-823-1011; 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; BA 325; 407-823-2870

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.

School of Optics/CREOL (Center for Research and Education in Optics and Lasers)

Director: Eric W. Van Stryland; 407-823-6800; E-mail: info@creol.ucf.edu; Web: <http://www.creol.ucf.edu>

The Center for Research and Education in Optics and Lasers (CREOL) is the State University System of Florida's Center of Excellence for research and education in optics, lasers, and photonics. It was established in 1986 to provide the highest quality education in optics and lasers, conduct scholarly fundamental and applied research, and aid in the development of Florida's high technology-based industries.

CREOL is the research arm of the School of Optics. The School offers Masters (MS) and Doctoral (PH.D.) Degrees in Optics. The School of Optics/CREOL has become an internationally recognized institute with 25 faculty members, 21 Ph.D. level research scientists, and 120 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 83,000-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 \$35 million in state-of-the-art equipment.

The School of Optics/CREOL's research activities span the spectrum from basic science to prototype development. The faculty and research staff pursue joint research projects with industry, academia, and government laboratories, and are always seeking new opportunities to work with industry to expose students to the industrial environment and to help in technology transfer. Current research areas include: linear and nonlinear guided-wave optics and devices, high-speed photonics networks and telecommunications, solid state laser development, nonlinear optics, laser induced damage, quantum-well optoelectronics, photonic information processing, infrared systems, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, x-ray optics, EUV sources, optical glasses, liquid crystal devices, laser materials processing, and light matter interaction. These programs are supported by over \$10 million of research grants and contracts from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from \$18,000 to \$25,000, are available to outstanding students pursuing graduate education in optics and photonics. Research training opportunities are also available to undergraduate students through the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation, and other research grants and contracts.

The School of Optics/CREOL has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of the School. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of laser and electro-optic technology.

Dick Pope, Sr. Institute for Tourism Studies

Director: Abraham Pizam; 407-823-6202

The mission of the Dick Pope Sr. Institute for Tourism Studies is to improve the quality of the tourism product and increase the benefits of tourism for the industry, the state, and the local community. To this end the Institute is involved in a variety of research projects and educational programs.

The Institute's research includes the collection, development, and dissemination of information relevant to the tourism and hospitality industry in the areas of marketing, consumer behavior and visitor satisfaction, feasibility, economic, motivation, and forecasting. Some of the Institute's patrons include tourism promotion agencies at the state and local levels; tourism development commissions; professional associations; and private enterprises such as attractions, hotels, motels, food-service establishments, ground and air transportation companies, travel agencies and tour operators, and other related businesses. The Institute devotes significant efforts to educating the public about the tourism industry in Florida and internationally, and about its contribution to the social and economic welfare of the general public.

Executive Development Center

Director: TBA; 407-823-2446

The University of Central Florida College of Business Administration is proud to serve as a partner in executive education to the local, state, national, and international business communities. The Executive Development Center was established to provide leading executive education programs to both individuals and organizations.

The Center helps professionals from all industries become more dynamic leaders, more effective managers, and more valuable team members. Corporations benefit from participating in executive education programs by developing more productive and resourceful workforces that can meet the challenges of today's changing marketplace and tomorrow's opportunities.

The Center serves as a valuable resource in executive training and development by offering programs that address critical issues for managers and business leaders. These programs are offered in a

Special Academic Programs and Research Institutes

variety of formats suitable for any individual or corporation through:

- Conference services
- Customized corporate programs
- Executive MBA Program
- Public enrollment programs

The UCF Executive Development Center has a strong commitment to the business community. Both small and large organizations find our programs to be contemporary, challenging, and effective.

Florida Canada Linkage Institute

Director: Dr. Jean C. Kijek; 407-823-3647/48; Fax: 407-823-3649;
E-mail: fcli@mail.ucf.edu

The Florida Canada Linkage Institute was created by the Florida Legislature to assist in the development of stronger economic and social ties between Florida and Canada. Linkage is developed through promotion of expanded public/private dialogue on cooperative research and technical assistance, cultural exchange, enhancement of language training, and student/faculty exchange programs, culture, and trade between Canada and Florida. The Institute serves the entire State University System. The Institute administers the Florida Out of State Tuition Fee Exemption Program for Canadian students to study in Florida's universities and community colleges for the same tuition fees as Florida residents. The awards are competitive and limited to 25 FTE per year.

Florida Eastern Europe Linkage Institute

Director: Dr. Jean C. Kijek; 407-823-3647/48; Fax: 407-823-3649;
E-mail: eeli@mail.ucf.edu

The Florida Eastern European Linkage Institute is statewide and is designed to create and foster educational, commercial, cultural and social exchanges between the countries in central and eastern Europe and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located in the College of Health and Public Affairs on the main campus, promotes the development of linkage 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.

Florida Institute of Government at the University of Central Florida

Director: Marilyn Crotty; 407-317-7745, Fax 407-317-7750.

The Institute of Government, an affiliate of the Florida Institute of Government, is part of the College of Health and Public Affairs and provides training and technical assistance to state and local government, governmental associations, and non-profit organizations. Training workshops, certification programs, conferences, seminars, applied research projects, citizen surveys, strategic planning, and organizational development programs are among the services offered by the Institute.

Florida Solar Energy Center (FSEC)

Ken Sheinkopf, 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)

Ron Phillips, FSI, Kennedy Space Center, FL 32899;
321-452-9834; Fax: 321-452-4842; E-mail: fsiccas@mail.ucf.edu;
website: <http://fsi.ucf.edu>

The Florida Space Institute (FSI) offers a unique approach to space education and research. Recognizing the substantial investment in launch facilities and human resources in Central Florida, the proposal to form a center that would merge industry, education, and research in a real-world environment became a reality. Created by a formal agreement among the following institutional partners: Brevard Community College, Embry Riddle Aeronautical University, Florida Institute of Technology, NASA-sponsored Florida Space Grant Consortium, Spaceport Florida, and the University of Central Florida, FSI brings a permanent academic presence to the space center. As the "gateway to the universe" FSI provides space education and research to undergraduate and graduate students at the USAF Cape Canaveral Air Station.

FSI research involves undergraduate and graduate students in real space problems within the existing space industry environment of the space center. This environment permits students and faculty to interact with space center engineers and to use the facilities of the space center. FSI research projects are primarily conducted in its facilities at Building AM at Cape Canaveral. Other facilities at KSC are used as needed and which are made available. Research projects conducted by the FSI university/college partners on their respective campuses are considered "normal" proprietary projects of that particular university/college even though the project may be space related.

Institute for Simulation and Training (IST)

Director: Randall Shumaker; 3280 Progress Drive, Orlando, FL 32826-0544; 407-882-1300; Fax: 407-658-5059;
E-mail: shumaker@ist.ucf.edu; Website: <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 for future simulation development. In April 1985 a State of Florida resolution recognized the institute as part of the Center of Excellence for Simulation and Training.

IST is 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 (PEO STRI), Naval Air Training Systems Division (NAVAIR TSD), 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 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 environments
- Computer generated forces
- Mathematical foundations
- Application development
- Information technology
- Human factors/Team training
- Training and education
- Media convergence
- Embedded simulation
- Parallel computing

Laboratories, work space, and administrative offices occupy nearly 38,000 square feet of floor space in IST's headquarters building. Another 26,000 square feet of office and laboratory space in the Central Florida Technology Development Center is shared with the US Army. Simulation-based emergency management training is conducted at the institute's training building near Orange and Seminole counties' joint fire rescue facility on the campus' north boundary.

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, and related disciplines. The institute annually employs more

than 80 graduate and undergraduate students in a variety of research and support positions. For many outstanding graduates, IST is a springboard to a career in the simulation industry.

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 and the University of South Florida, and with considerable participation from area corporations, IST researchers are helping to promote economic growth in the modeling and simulation industry along central Florida's high tech corridor.

Institute of Statistics and Data Mining

Director: I. Ahmad; 407-823-2289.

The Institute of Statistics and Data Mining provides statistical consulting support to graduate students, staff and faculty members in all stages of their research projects. The Institute's services include, but are not limited to, design of experiments and surveys, determination of sample sizes, formulation of hypotheses, selection of appropriate analysis using a variety of software packages, interpretation and evaluation of statistical results, preparation of statistical reports, and writing statistical methods and data analyses sections of research grant proposals as well as data management through the data mining lab. The Institute's faculty members are available to work as co-investigators or statistical consultants into 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://www.cas.ucf.edu/statistics/consulting/institute.htm>) The Institute offers one free consulting session to Ph.D. graduate students. The consulting service is available to faculty members working on funded projects for a modest fee. Professor Ibrahim A. Ahmad (iahmad@mail.ucf.edu), Chairman of the Statistics Department, is the Director of the Institute. However, other faculty members from the Department of Statistics and Actuarial Science are available for assisting clients.

Institute for Technical Documentation

Director: Karla Saari Kitalong; CNH 306H; 407-823-6257.

The Institute for Technical Documentation offers a variety of services for client companies, including developing original technical documentation, translating documentation written in other languages, and providing seminars to assist clients in writing their own documentation. The Institute also provides seminars on writing more effective e-mail, memos, letters, policies and procedures, manuals, and reports. Experienced faculty, established facilities, and strong rapport with local industry enable the Institute to assist in a wide variety of documentation projects and seminars.

Small Business Development Center (SBDC)

Director: Aloyse T. Polfer; University Tech Center, Suite 300, 12565 Research Parkway; 407-823-5554.

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 a geographic area including Orange, Osceola, Lake, Citrus, Volusia, Flagler, and Sumter counties. Regional centers located at Daytona Beach Community College, Brevard Community College, and Seminole Community College assist small business in those areas. Assistance is provided through workshops and individual counseling in the following areas:

- Personnel
- Bookkeeping
- Business Tax
- Franchising
- Marketing
- Sources of Financing
- Product Innovation
- Business Plan Development

Additional programs provide assistance to clients in the areas of government contracting, energy conservation, and international trade.

Small Business Institute

Director: Lloyd W. Fernald; 407-823-5725

Business schools have for some years been interested in getting students out of the classroom and involved with real business problems rather than "textbook" situations. By sponsoring the Small Business Institute program, the University of Central Florida does not only satisfy this need, but at the same time provides free professional help to small businesses in need of managerial guidance.

The SBI program uses a team of senior-level undergraduate or graduate-level students who, under faculty supervision, provide management counseling and technical assistance to small business clients. Examples of these services are: general management audits, development of business plans, establishment of accounting systems, design of inventory systems, cost analysis, pricing strategies, and evaluation of alternative markets.

The major objective of the College of Business Administration at the University of Central Florida is to educate men and women for positions of productive responsibility in business and the professions. UCF's Small Business Institute program stresses analytic ability and the student's learning skills in recognizing and coping with change. The Small Business Institute program at the same time provides on-the-job experience and sound academic training for the student.

ACADEMIC DEGREES, MAJORS AND MINORS



Associate of Arts Degree

University of Central Florida students who satisfactorily complete 60 semester 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 semester 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 Arts, 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 Sciences

Bachelor of Arts (B.A.)

Majors:

Advertising, Anthropology, Art, Digital Media, Economics, English, Film, Foreign Languages Combination, French, History, Humanities, Interpersonal Communication, Journalism, Liberal Arts, Liberal Studies, Music, Music Education, Organizational Communication, Philosophy, Political Science, Psychology, Radio-Television, Sociology, 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.)

Academic Degrees, Majors and Minors

Bachelor of Science (B.S.)

Majors:

Actuarial Science, Biology, Chemistry, Digital Media, Forensic Science, Liberal Studies, Mathematics, Physics, Psychology, Social Sciences (interdisciplinary), Statistics

College of Business Administration

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

College of Education

College of Education

Bachelor of Science (B.S.)

Majors:

Art Education, Early Childhood Education, Elementary Education, English Language Arts Education, Exceptional Student Education, Foreign Language Education, Mathematics Education, Physical Education, Science Education, Social Science Education, Sports and Fitness, Vocational Education and Industry Training.

College of Engineering and Computer Science

School of Electrical Engineering and Computer Science
College of Health and Public Affairs

College of Engineering and Computer Science

Bachelor of Science

Majors:

Aerospace Engineering (B.S.A.E.), Civil Engineering (B.S.C.E.), Computer Engineering (B.S.Cp.E.), Computer Science (B.S.), Electrical Engineering (B.B.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.).

Rosen School of Hospitality Management

School/Department Awarding Minor*

Multidisciplinary
Department of Aerospace Studies
Department of Art
Department of Biology
Department of Chemistry
Nicholson School of Communication

Studies, Middle Eastern Studies, North American Indian Studies, Russian Area Studies, Social Sciences-Interdisciplinary, Women's Studies
Accounting, Business Administration (for non-Business Administration majors), e-Business, Economics (for Business and non-Business majors), Management Information Systems, Marketing (for Business and non-Business majors)
Coaching, Exceptional Education, and Fitness Training, Vocational Education and Industry Training
Aerospace Studies, Military Science, Space Studies, Technology and Society
Computer Science, Applied Computer Science, Computer Information Technology
Aging Studies, Addictions, American Humanics, Communicative Disorders, Criminal Justice, Emergency Management, Health Sciences, Health Services Administration, Health Information Management, Legal Studies, Molecular Biology and Microbiology, Public Administration, Urban and Regional Planning
Hospitality Management

Name of Minor

Space Studies
Aerospace Studies (Air Force ROTC)
Art History, P.A.V.E., Studio Arts
Biology
Chemistry
Interpersonal Communication, Organizational Communication, Mass Communication, Magazine Journalism
Technical Writing and Editing, Creative Writing, Literature, Linguistics, Writing
Cinema Studies
French, German, Italian, Russian, Spanish
History
Mathematics
Military Science (Army ROTC)
Music
Environmental Studies, Humanities, Philosophy, Religious Studies
Physics
Asian Studies, Political Science, Political Science/Pre-Law
Clinical, Human Factors, Industrial/Organizational
Multicultural Anthropology, Sociology, Anthropology
Statistics
Theatre

College of Health and Public Affairs

Bachelor of Arts (B.A.)

Majors:

Communicative Disorders, Criminal Justice, Legal Studies, Public Administration

Department of English

Bachelor of Science (B.S.)

Majors:

Cardiopulmonary Sciences, Communicative Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Generalist Track, Health Services Administration, Legal Studies, Medical Laboratory Sciences, Molecular Biology and Microbiology, Public Administration, Radiologic Sciences

Department of Film
Department of Foreign Languages and Literatures
Department of History
Department of Mathematics
Department of Military Science
Department of Music
Department of Philosophy

Bachelor of Science in Nursing (B.S.N.)

Major:

Nursing

Department of Physics
Department of Political Science
Department of Psychology

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

Major:

Social Work

Department of Sociology and Anthropology
Department of Statistics
Department of Theatre

Rosen School of Hospitality Management

Bachelor of Science (B.S.)

Majors:

Hospitality Management, Restaurant and Foodservice Management

*Contact the college/school/department for the requirements for each minor.

Academic Minors

College Awarding Minor*

College of Arts and Sciences

Name of Minor

African American Studies, American Studies, Digital Media
Judaic Studies, Latin American

Graduate Programs

See description at the beginning of each college section. For further information on a particular program or graduate fellowships, contact the departmental office in the respective college or see the *Graduate Catalog*.

COLLEGE OF ARTS AND SCIENCES



Dean: Kathryn L. Seidel; CAS 190; 407-823-2251
Interim Associate Dean: Michael Johnson; CAS 190; 407-823-2251
Interim Associate Dean: Clint Bowers; CAS 190; 407-823-2251
Associate Dean: TBA; CAS 190; 407-823-2251
Associate Dean: Haven C. Sweet; CAS 190; 407-823-2251
Associate Dean: Jose Fernandez; CAS 190; 407-823-2251
Associate Dean: Lyman Brodie; CAS 190; 407-823-2251

The College of Arts and Sciences, the largest academic unit in the University, includes the following departments: Art; Biology; Chemistry; English; Film; Foreign Languages and Literatures; History; Liberal Studies; Mathematics; Music; Philosophy; Physics; Political Science; Psychology; Sociology and Anthropology; Statistics; and Theatre. The College also includes the Nicholson School of Communication that includes the following divisions: Advertising/ Public Relations, Interpersonal/Organizational Communication, Journalism, and Radio/Television.

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the broad areas of the humanities, arts, natural sciences, and social sciences. The depart-

ments collectively offer more than sixty baccalaureate, graduate, and pre-professional programs. For additional information concerning graduate programs, please refer to the *Graduate Catalog*.
<http://graduate.ucf.edu/currentGradCatalog/>

In addition to providing academically strong degree programs in the areas noted above, the College of Arts and Sciences offers a wide selection of courses that are designed to complement the programs of the other colleges of the University. These offerings include most of the courses necessary to satisfy the University's general education requirement.

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, 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.

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: 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 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 either the College of Arts and Sciences or the College of Business Administration; emphasis in Legal Studies can be pursued in the Department of Criminal Justice and Legal Studies in the College of Health and Public Affairs.

Prehealth Professions

The College of Arts and Sciences offers courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional section for additional information.

Advisement

Office of Academic Support and Information Services (OASIS)

<http://www.cas.ucf.edu/oasis>

Interim Director: Lee Anne Kirkpatrick; CNH 202; 407-823-2492; e-mail: oasis@ucf.edu

The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance in the College of Arts and Sciences. OASIS assists students in the College with degree requirements, policies and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits for Arts and Sciences students.

Questions concerning University and College academic policies affecting Arts and Sciences majors should be directed to the OASIS 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.

Program Planning

Although suggested curricula are available in most areas, students will plan their program in consultation with a faculty advisor appointed by either the major department or the College.

Area Studies Programs

Area Studies programs are multi-disciplinary programs that focus on specific regions or cultural groups. UCF has five area studies programs with an international focus: Asian, Judaic, Latin American, Middle Eastern, and Russian Studies. Although the academic home of these programs is the College of Arts and Sciences, 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. Contact the Office of International Studies for assistance or referral for all international inquiries regarding academic programs.

Asian Studies - *Contact:* Housman Sadri; 407-823-2608

Middle Eastern Studies - *Contact:* Elliot Vitte; 407-823-2745

Latin American Studies - *Contact:* Arlen Chase; 407-823-2124

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

Russian Studies - *Contact:* TBA; 407-823-2251

LINC Program

Program Coordinator: H. Sweet; CAS 191; 407-823-3253; email: linc@ucf.edu

The Learning in Communities program (LINC) at UCF enriches a students' experience in select General Education Program courses. Paired GEP sections are joined in the LINC program into a single, six credit course which is jointly taught by two faculty. These faculty integrate their courses, thereby reinforcing the material presented in both. Students in the LINC sections form a greater bond, both among themselves and with the teacher. Although treated as a single class during the term, separate academic credit and grades are provided for both participating courses.

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 semester 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
Actuarial Science	BS
Advertising/Public Relations	BA
African-American Studies	Minor
American Studies	Minor
Animation	BFA
Anthropology	BA, Minor
Art	BA, BFA, Minor
Asian Studies	Minor
Biology	BS, MS, Minor
Biomolecular Sciences	PhD
Chemistry	BS, MS, Minor
Cinema Studies (Film)	BA, Minor
Communication	MA
Community Arts - PAVE	Minor
Digital Media	BA, BS, Certificate, Minor
Economics	BA, BA/MAAE Accelerated
English	BA, MA, Minor
English as a Second Language	MA
Film	BA, BFA
Foreign Language Combination	BA
Forensic Science	BS
French	BA, Minor
German	Minor
History	BA, MA, Accelerated MA, Minor
Humanities	BA, Minor
Interpersonal Communication	BA, Minor
Italian	Minor
Jazz Studies	Certificate
Journalism	BA
Judaic Studies	Certificate, Minor
Latin-American Area Studies	Minor
Liberal Arts	BA
Liberal Studies	BA, BS, MS, Accelerated MS
Magazine Journalism	Minor

Mathematics	BS, MS, PhD, Minor
Mass Communication	Minor
Middle Eastern Studies	Minor
Music	BA, BM, Minor
Music Education	BME
Music Technology	Certificate
North American Indian Studies	Minor
Organizational Communication	BA, Minor
Philosophy	BA, Minor
Physics	BS, MS, PhD, Minor
Political Science	BA, MA, Minor
Psychology	BA, BS, PhD, Minor
Radio-Television	BA
Religious Studies	Minor
Russian Area Studies	Minor
Social Sciences	BS, Minor
Sociology	BA, MA, Minor
Spanish	BA, MA, Minor
Statistics	BS, MS, Minor
Theatre	BA, BFA, Minor
Translation and Interpretation	Certificate
Women's Studies	BA, Minor, Certificate

Departments and Programs

African-American Studies: Program

<http://www.cas.ucf.edu/africanamericanstudies>

Director: Dr. JoAnne Stephenson; CNH 201G; 407-823-0026

Email: aas@ucf.edu

The College of Arts and Sciences offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from an interdisciplinary perspective. The program, which is designed to enhance and complement the student's major area of study, provides an overview of the main currents in African American arts, history, and culture. Courses in Caribbean Studies are also available to students. Each summer the Caribbean Study Abroad Program offers students the opportunity to study and explore cultures and societies of the Caribbean.

Degrees: None
Tracks: None
Minors: African-American Studies

American Studies: Program

Contact: Liberal Studies Advising Team CNH 201; 407-823-0144

The College of Arts and Sciences 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

Anthropology

(See Sociology and Anthropology)

Art: Department

<http://reach.ucf.edu/~art>

E-mail: art@ucf.edu

Chair: Madison K. Francis; VAB 117; 407-823-2676

Faculty: Abbas, Abraham, Banks, Burkhart, Chavda, Congdon, Francis, Gaudnek, Gonzalez, Hall, Haran, Haxton, Kim, Martin, Poindexter, Reedy, Rivers

The Department of Art has 15 full-time and 9 part-time faculty members teaching 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, fibers and fabrics, 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.

Degrees: Art (BA, BFA)
Tracks: Animation, Art History, Studio Art
Minors: Art History, Studio Art

Asian Studies: Program

Acting Director: Houman Sadri; CNH 415; 407-823-2608

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, foreign languages, history, humanities, philosophy, political science).

Degrees: None
Tracks: None
Minors: Asian Studies

Biology: Department

<http://pegasus.cc.ucf.edu/~biology/>

E-mail: biology@ucf.edu

Chair: David Kuhn; BL 210; 407-823-2141

Faculty: Ehrhart, Kuhn, Morrison-Sheltar, Noss, Osborne, Parkinson, Shetlar, Snelson, Sotero, Stout, Sweet, Taylor, Thomas, Vajravelu, Vickers, von Kalm, Walters, Waterman, Weishampel, Whittier, Worthy, Professors Emeritus Ellis and Koevenig

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, and a cooperative Ph.D. in Biomolecular Sciences. The core 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 of a subspecialty. Careful selection of restricted and unrestricted electives allows students to satisfy requirements for admission to professional or graduate school while completing their B.S. degree in Biology. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts.

Degrees: Biology (BS, MS, PhD)
Tracks: Biology Pre-professional (BS)
Minors: Biology

Chemistry: Department

<http://www.cas.ucf.edu/chemistry>

E-mail: chemistry@ucf.edu

Chair: G. Cunningham; CH 117; 407-823-2246

Faculty: Ballantyne (Forensic Science), Belfield, Clausen, Elsheimer, Fookes (Forensic Science), Geiger, Hampton, Juge, Kujawa (Geology), Madsen, McGee (Forensic Science), Miles, Paradis, Phanstiel, Slaterbeck

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, and a Master of Science in Industrial Chemistry. 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 pharmacology or toxicology. With an appropriate choice of electives it also constitutes excellent preparation for the professional schools of dentistry, medicine, and veterinary medicine.

Degrees: Chemistry (BS, MS), Forensic Science (BS)
Tracks: Chemistry, Forensic Analysis, Forensic Biochemistry
Minors: Chemistry

Communication: Nicholson School

<http://www.cas.ucf.edu/communication>

E-mail: communication@ucf.edu

Director: TBA; COM 238; 407-823-2681

Faculty: Bagley, Barfield, Betz, Bledsoe, Bridges, Brokaw, J. Butler, Costain, Davis, DeLorme, Fedler, Hall, Hodgson, Katt, F. Johnson, Lawrence, Malala, Maunez-Cuadra, Meeske, Mills, Moroux, O'Hara, Pryor, Rabby, Santana, R. Smith, Stansberry, Tanzi, Taylor, Workman, Wycoff, Young

The Nicholson School of Communication provides students with a balance of practical skills and philosophical aspects of mass and

interpersonal communication. The programs prepare students to understand mass media as social institutions and trains them for professional careers. The School is composed of four Divisions which offer five separate Bachelor of Arts degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
 2. Interpersonal Communication. Provides knowledge, theory, and skills needed to understand and predict human communicative behavior.
 3. Journalism. Provides theory and skills needed to gain employment in newspapers, magazines, and similar forms of mass communication.
 4. Organizational Communication. Provides knowledge, skills, and theory to understand and predict human communicative behavior in organizational settings.
 5. Radio-Television. Provides theory and skills needed for careers in radio, television, and related forms of electronic communication.
- A Master of Arts degree in Communication is offered.

Facilities

The Radio-Television Division has fully-equipped audio and video production facilities, a complete multi-camera television studio, an on-line radio station, and laboratories for interactive multimedia. The Journalism Division has computer writing rooms and both a traditional wet photography lab and a digital darkroom. The Advertising/Public Relations Division has a computerized graphics lab and a writing classroom. The Interpersonal/ Organizational Communication Division has a presentational speaking classroom equipped for audio/video record/playback and computerized visual presentation. The Division also has a small group laboratory equipped with audio/video record/playback.

Degrees: Advertising/Public Relations (BA), Interpersonal Communication (BA), Journalism (BA), Organizational Communication (BA), Radio Television (BA)

Tracks: Broadcast Journalism, Broadcast Production, General Broadcasting

Minors: Interpersonal Communication, Magazine Journalism, Mass Communication, Organizational Communication

Community Arts—PAVE: Program

Director: Madison K. Francis; 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

English: Department

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

E-mail: english@ucf.edu

Chair: TBA; CNH 301; 407-823-2212

Faculty: Angley, Applen, Barnes, Bartkevicius, Bell, Bowdon, Brain, Brodtkin, Campbell, Casmier-Paz, Davidson, Dombrowski, Donnelly, Flammia, Fox, Graieda, Gomrad, Hammons, Hemschemeyer, Hepner, Hohenleitner, Hubbard, A. Jones, D. Jones, Kamrath, Kesler, Kitalong, Lamazares, Leiby, Lillios, Logan, Marinara, Mauer, Meehan, Morton, Murphy, Omans, Owens, Pugh, Rodriguez-Milanes, Rushin, Saper, Schell, Schifffhorst, Scott, Seidel, Smith, Sommer, Spraker, Stap, Telep, Thaxton, Trouard, Wallace, Young. Adicks (Professor Emeritus)

The Department of English is responsible for the effective teaching of language and literature in English, including World Literature, and creative, expository, and technical writing. Students may concentrate in creative writing, technical writing, or literature. The Department serves the broad needs of the University with course offerings in writing and literature for students from other departments. The department has a Technical Documentation Writing Lab and also publishes *The Florida Review*, *The Cypress Dome*, and *The Faulkner Journal*. An Honors in English program provides an enriched course of study for exceptional students, leading to graduation with honors. Program description follows concentration degree plans.

Degrees: English (BA, MA, Ph.D)
Tracks: Literature, Creative Writing, Technical Writing
Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

School of Film and Digital Media

Digital Media: Program

<http://www.creat.cas.ucf.edu>

E-mail: creat@cas.ucf.edu

Director: J. Michael Moshell; VAB 205; 407-823-6100

The Digital Media program is offered by the Consortium for Research and Education in the Arts and Technology (CREAT) and is housed in the College of Arts and Sciences. Contributing academic units include the Departments of Art, English, Film, Music, Theatre, and the School of Electrical Engineering and Computer Science.

Degrees: Digital Media (BA, BS)
Tracks: Graphic Design, Computer Animation, Computing for Media, Writing for Media, Digital Music, Internet and Interactive Systems

Minors: Minor, Certificate

Film: Program

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

E-mail: film@ucf.edu

Chair: Sterling Van Wagenen; COM 121; 407-823-3456

Faculty: Blum, Gerstein, Harpole, Harris, Ingle, M. Johnson, B. Jones, Stapleton, Wirth, Yearwood

Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student's creative voice, and stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of their work. Encompassing all aspects of filmmaking from conceptualization to distribution, the department 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, and cinema studies. Community partners include: Universal Studios Florida, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the "limited access" program by submitting an application form and creative portfolio by January 15. Complete information on faculty, curriculum, and admission requirements is available on the department website. Because this is a limited access program, students should pay close attention to the program admission requirements.

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

Foreign Languages and Literatures: Department

<http://pegasus.cc.ucf.edu/~forlang>

E-mail: foreignlanguages@ucf.edu

Chair: C. Stebbins; CNH 523; 407-823-2472

Faculty: Barberet, Barsch, Cervone, Decker, Del-Río, DiPierro, Fabery, Fernández, Ferro, Folse, Giannandrea, Korosy, Leticée, López, Martínez, Nalbone, Prucha, Redmon, Rivera, Stebbins, Taylor, Villanueva. Micarelli (Professor Emeritus)

Language studies in the College of Arts and Sciences provide instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a combination of 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 enrolled in the 1000-level language sequence are required to utilize the Foreign Language Media Center for at least one hour per week. 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 Sciences, and by the Department of Foreign Languages and Literatures.

Degrees: French (BA), Spanish (BA, MA), Foreign Language Combination (BA), ESOL (MA)
Tracks: None
Minors: French, German, Italian, Spanish

Forensic Science: Program

<http://www.cas.ucf.edu/chemistry/forensic.html>

E-mail: chemistry@ucf.edu

Director: W. W. McGee; CH 221; 407-823-2788

Faculty: Ballantyne, Fookes, McGee

Forensic Science is the profession serving the scientific needs of the justice system. The program at UCF has been designed to provide the student with an educational background in criminalistics. The principal job of the forensic scientist is to examine physical evidence gathered at the scene of a suspect criminal action. The criminalist may work on physical evidence such as blood, hairs, fibers, or pharmaceutical and clandestine drug preparations. Upon completion of a thorough laboratory examination of the evidence, the forensic scientist presents his/her findings in court. The goal of the Forensic Science program is to prepare the student for this demanding profession. Within the Forensic Science program, the student may choose one of two programs of study. The two areas of emphasis are the Analysis Track and the Biochemistry Track.

Degrees: Forensic Science (BS)
Tracks: Forensic Analysis, Forensic Biochemistry
Minors: none

History: Department

<http://pegasus.cc.ucf.edu/~history>

E-mail: history@ucf.edu

Chair: Edmund Kallina; CNH 544; 407-823-2224

Faculty: C. Adams, S. Adams, Alvarez, Beiler, Downing, Evans, Fernandez, Friend, Gordon, Greenhaw, Kallina, Leckie, Pauley, Perry, Stockdale, Walker, Zhang

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, Canadian and Commonwealth Studies, Latin-American and Iberian Area Studies, and Russian Area Studies.

Degrees: History (BA, MA, Accelerated MA)
Tracks: None
Minors: History

Judaic Studies: Program

http://www.cas.ucf.edu/judaic_studies

E-mail: judaicst@ucf.edu

Program Director: Professor Moshe Pelli; CNH 201, 407-823-5039 or 823-5129

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 international and Middle-Eastern affairs, in languages or liberal arts, in the ministry or rabbinate, and in the community at large.

Degrees: None
Tracks: None
Minors: Judaic Studies

Latin American Area Studies: Program

E-mail: achase@mail.ucf.edu

Director: Arlen Chase; PH 403M; 407-823-2124

The Latin American Area Studies Minor is an interdisciplinary academic program whose objective is to provide students with an understanding of Latin American cultural, social, intellectual and political-economic dynamics. The minor provides students with a background that can be applied to careers in teaching, government, business, non-profit organizations, as well as international, inter-American Affairs.

Degrees: None
Tracks: None
Minors: Latin American and Iberian Area Studies

Liberal Studies: Program

http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Program Contact: The Liberal Studies Advising Team

Academic Advisors: Karen Cox, Katrin DeWindt, Lee Logan, Linda Skrotzky; CNH 20, Judy Monroe (MNH 321) 407 823-0144.

The Liberal Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study that include sixteen different areas plus minor degree programs. The degree includes six different tracks: Liberal Studies, Computer Information Technology, Environmental Studies, Photography and Women's Studies.

Degrees: Liberal Studies (BA, BS, MA, MS)
 Photography (A.S. to B.S.)
Tracks: Liberal Studies, Liberal Arts, Environmental Studies, Women's Studies, Computer Information Technology
Minors: American Studies, Environmental Studies, Social Sciences Interdisciplinary

Mathematics: Department

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

Chair: Zuhair Nashed; MAP 209; 407-823-0445

Faculty: Andrews, Anthony, Armstrong, Brigham, Cannon, Caron, Choudhury, Clarke, Danielyan, Dunlop-Pyle, Dutton, Griffiths, Han, Heinzer, Higgins, Hilton, Hoffman, Jones, Kassab, Katsevich, Langfield, Li, Martin, Mikusinski, Mohapatra, Pensky, Phillips, Pyle, Rautenstrauch, Ren, Richardson, Rodriguez, Rollins, Salzmann, Schober, Shivamoggi, Taylor, Tovbis, Vajravelu, Young, Zhao

The Department of Mathematics offers courses and programs which lead to a Bachelor of Science in Mathematics, a minor in Mathematics, a Master of Science in Mathematical Science and a Ph.D. in Mathematics. (See the Graduate Studies catalog for a description of the M.S. in Mathematical Science and the Ph.D. in Mathematics.) The programs in mathematics are designed to serve;

1. students who desire to pursue careers in mathematics after having completed a baccalaureate degree;
2. students who desire to continue their education in graduate and professional schools; and
3. students who need to use advanced mathematics as a tool in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Mathematics have developed along several lines. There are the usual service courses in pre-calculus and calculus along with strong programs in the upper division in the traditional areas of algebra and analysis and applied mathematics.

The department does not award credit by examination for courses which are regularly taught. Students who feel they know the material in a given course are encouraged to take a more advanced class to fulfill their mathematics requirement. A limited number of student assistantships are available for qualified graduate students.

Degrees: Mathematics (BS, MS, PhD)
Tracks: Applied Mathematics, Computational Mathematics, Engineering/Physics, Mathematics, Pure Mathematics
Minors: Mathematics

Music: Department

<http://pegasus.cc.ucf.edu/~ucfmusic>

E-mail: music@ucf.edu

Chair: TBA; CNH 205; 407-823-2869, Fax 407-823-3378

Faculty: Almeida, Brodie, Brunner, Cardarelli, Garcia, Gardner, D. Gelenbe, Greenwood, Holcomb, Koons, Kraut, Moore, Palmer, Pickering, Roney, Rupert, Stephenson, Sung, Weremchuk, Yonetani
Part-Time Faculty: Berger, Brett, Brownlow, Fox, Garrity, Hawkins, Hellhake, Hill, Krueger, Leung, Liao, Robertson, Swedberg, Threatte, Ward, Wei

The Department of Music offers a Bachelor of Music degree with options in performance, composition, and piano pedagogy; a Bachelor of Arts Degree in music; and a Bachelor of Music Education Degree with specializations in instrumental, choral and elementary school music. The Music Education programs are approved by the Florida State Department of Education. Students who desire to be certified to teach in elementary and secondary schools should major in Music Education. Courses leading to teacher certification are offered cooperatively with the College of Education. Master of Arts and a Master of Education degrees in Music Education are offered by 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, University Vocal Society, Gospel Choir, MIDI User Group, Student Chapters of MENC and ACDA, and Student Advisory Council.

Degrees: Music (BA), Music Education (BME),
Music Performance (BM)

Tracks: Music Performance, Composition

Minors: Music

Philosophy: Department

<http://www.cas.ucf.edu/philosophy>

E-mail: philosophy@ucf.edu

Chair: TBA; CNH 411; 407-823-2273

Faculty: Congden, DiBernardo, Hawkins, Jaeger, Jones, Kassim, Park, Riser, Schippert, Stanlick, Strawser, VanHook

The Department of Philosophy offers a Philosophy major and a Humanities major, with tracks in multicultural Humanities and in Religious Studies, as well as minors in Philosophy, Humanities, Religious Studies, and Environmental Studies. The Department requires Philosophy and Humanities majors to receive advisement prior to registering each semester. Majors should schedule appointments with their departmental advisor when picking up their registration form and schedule booklet. For any course used to satisfy a requirement (including electives) of either the Philosophy major or the Humanities major, a grade of "C" or better must have been received.

Degrees: Philosophy (BA), Humanities (BA)

Tracks: Regular and Honors

Minors: Philosophy, Humanities, Religious Studies

Physics: Department

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

E-mail: physics@ucf.edu

Interim Chair: Ralph Llewellyn; MAP 310; 407-823-2325

Associate Chair: Lee Chow; MAP 315; 407-823-2333

Faculty: Bhattacharya, Bolemon, Bose, Braunstein, Brennan, Campins, Chernyak, Chow, Johnson, Llewellyn, Luo, Neighbor, Peale, Saha, Saul, Schulte, Tonner, Vanfleet, Walters, Winningham
Visiting Faculty: Dubey, Efthimiou, Evans

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 as 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, con-

densed matter physics, complex systems, biophysics, atomic and molecular physics, nanostructures, and space science. The Department of Physics also offers a Master of Science degree and a Doctor of Philosophy degree.

Degrees: Physics (BS, MS, PhD)

Tracks: General Physics, Materials Physics, Optics and Lasers, Computational Physics, Astronomy

Minors: Astronomy, Physics

Political Science: Department

<http://pegasus.cc.ucf.edu/~politics>

E-mail: politics@ucf.edu

Chair: R. Handberg; CNH 415; 407-823-2608

Faculty: Bartling, Benson, Bledsoe, Bradford, Dolan, Fine, Hamann, Handberg, Jewett, Jungblut, Kiel, Kinsey, Knuckey, Lanier, Lilie, Morales, Pollock, Reichert, Sadri, Schraufnagel, Vittes, Wilson

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.
- Canadian and Commonwealth Studies: Contact M. Elliot Vittes.
- Environmental Studies: Contact Dwight Kiel.
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson.
- Russian Area Students: Contact Houman A. Sadri.
- Space Studies: Contact Roger Handberg
- Women's Studies: Contact Terri S. Fine or Joyce Lilie.

Degrees: Political Science (BA, MA), Economics (BA)

Tracks: American Politics, International Relations
Comparative Politics, Prelaw

Minors: Political Science, Political Science/Prelaw

Psychology: Department

<http://pegasus.cc.ucf.edu/~psych>

E-mail: psychology@ucf.edu

Chair: J. McGuire; PH 302B; 407-823-2216

Associate Chair: W. Wooten, PH 305E; 407-823-2216

Faculty: Berman, Blau, Bowers, Brophy, Burroughs, Chin, M. Dunn, S. Dunn, Ehrenreich, Fiore, Fisher, Fritzsche, Gilson, Hagans, Hancock, Hitt, Jensen, Jentsch, M. Kennerley, R. Kennerley, Lavooy, McGuire, Morgan, Mottarella, Mouloua, Negy, Newlin, Rapport, Renk, Rinalducci, Rollins, Salas, Shirkey, Sims, Smither, Stone-Romero, Thomas, Tucker, Wang, Weaver, Wooten

Psychology is one of the empirical sciences in the College of Arts and Sciences. The Undergraduate Program in the Department of Psychology reflects the scientific nature of the field and has two primary missions. The first is to provide students with a rigorous preparation for graduate training in psychology and related fields. The second mission is to provide all students with skills they will need to apply the basic concepts and methods of psychology in their work, their communities, and their lives. The Department of Psychology grants both BA and BS degrees. While either the BA or BS degree provides excellent preparation for graduate programs, students desiring a strong background in statistics and science should consider the BS option. The BS option has more science and math-related requirements as well as additional courses in psychology research and statistical methods.

Degrees: Psychology (BA, BS, MA, MS, PhD)

Tracks: None

Minors: Psychology

Russian Area Studies: Program

Contact: R. Crepeau; 407-823-2224

Four UCF departments, Foreign Languages, History, Political Science, and Philosophy, have pooled their resources to offer a minor to students interested in a basic and well-rounded background in Russian Area Studies. The philosophy of the program is to offer students a multidisciplinary approach to the subject, so as to allow them to grasp the subject in its complexity and to understand linguistic, cultural, historical, political, and socio-economic interrelationships

Degrees: None
Tracks: None
Minors: Russian Area Studies

Social Sciences: Program

Contact Program: Liberal Studies Advising Team; CNH 201; 407-823-0144

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 between those fields. Satisfactory completion of the program leads to the Bachelor of Science degree with a major in Social Sciences.

Degrees: Social Sciences (BS)
Tracks: None
Minors: Social Sciences-Interdisciplinary

Sociology and Anthropology: Department

http://www.cas.ucf.edu/soc_anthro/firstpage.html

E-mail: anthropology@ucf.edu, sociology@ucf.edu

Chair: J. Corzine; PH 403B; 407-823-2227

Associate Chair: D. Gay

Faculty: A. Chase, D. Chase, Cook, Corzine, Dees, Dietz, Dupras, Ford, Gay, Goldstein, Howard, Huff-Corzine, D. Jones, Jasinski, Keeton, Lieberman, Lynxwiler, Marshall, Morris, Mustaine, Sikorska-Simmons, Stearman, Wallace, Wright, Wright II, Zorn

The Department of Sociology and Anthropology offers a Bachelor of Arts in Sociology and in Anthropology. Students should consult with their departmental advisor early in their academic careers to select an area of specialization within the Department or if they plan to pursue graduate work.

Degrees: Anthropology (BA), Sociology (BA, MA)
Tracks: Domestic Violence (MA)
Minors: Anthropology, Anthropology in Multicultural Studies, Sociology

Statistics: Department

<http://www.cas.ucf.edu/statistics>

E-mail: statistics@ucf.edu

Chair: I. Ahmad; CCII 212; 407-823-2289

Faculty: Cutchins, Gad, Guo, Hoffman, Jamshidian, Johnson, Nickerson, Pensky, Ren, Richardson, J. Schott, S. Schott, Su, Suchora, M. Wang, You, Zhang

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. (See the Graduate Studies catalog for a description of the M.S. in Statistical Computing.)

The undergraduate programs in statistics and actuarial science are designed to serve 1) students who desire to pursue careers in statistics or actuarial science after having completed a baccalaureate degree; 2) students who desire to continue their education in graduate or professional schools; and 3) students who use statistics or actuarial science as tools in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are

available for qualified graduate and undergraduate students.

Degrees: Statistics (BS, MS), Actuarial Science (BS, MS)
Minors: Statistics

Theatre: Department

<http://pegasus.cc.ucf.edu/~theatre>

E-mail: theatre@ucf.edu

Chair: TBA; UTC 111; 407-823-2861.

Faculty: Bell, Boyd, Brotherton, Brown, Chicurel, Harmon, Harris, Hart, Huaixiang, Ingram, Lartonoix, Listengarten, Major, McDonald, Niess, Owens, Ruscella, Rusnock, Seay, Shafer, Siegfried, Smith (Professor Emeritus), Vernon

The Department of Theatre seeks to develop theatre artists of the highest quality by providing a select number of undergraduate students with the training, education, and experiences necessary for the successful pursuit of professional careers in theatre arts. In support of this mission and the liberal arts goals of the College of Arts and Sciences, the department seeks to provide its students with the knowledge and skills necessary to live full, rewarding and productive lives. Offering both the Bachelor of Arts and the Bachelor of Fine Arts degrees, the Department of Theatre undertakes to develop and graduate theatre artists who are sensitive, aware, and total 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 thus providing them with a unique and invaluable introduction to the real world of professional theatre. 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)
Tracks: Performance, Design/Tech, Stage Management, Musical Theatre
Minors: Theatre

Women's Studies: Program

<http://www.cas.ucf.edu/womensstudies>

E-mail: womenst@ucf.edu

Director: L. M. Logan ; CNH 201H; 407-823-6502

The Women's Studies program offers an interdisciplinary minor and a certificate in Women's Studies, in cooperation with several departments. The program examines women's situation and contributions in past and present societies, women's issues, and theories concerning women and gender.

Degrees: BA (Liberal Studies)
Tracks: Women's Studies Track in Liberal Studies
Minors: Women's Studies, Certificate

THE BURNETT HONORS COLLEGE



Dean: Allyn MacLean Stearman; The Burnett Honors College;
407-823-2076, Fax 407-823-6583

Associate Dean: Alvin Wang

Director of Student Services: Madi Dogariu

Director of Computer Operations: Andrew Holloway

Director of Honors Student Affairs: Jill Painter

Director of Advising: Peter Wallace

Director of Student Development: TBA

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

The Burnett Honors College (TBHC) at UCF is designed to provide a challenging and exciting educational experience to academically talented students who have demonstrated ability and desire to achieve scholarly excellence. It is committed to diversity in both the composition of its student body and the programs that it supports.

TBHC combines the atmosphere of a small college with the intellectual stimulation of a large research university. Honors students receive an education that prepares them to enter the best graduate and professional schools as well as distinguished careers in business and public service.

Honors classes are small, and course work crosses traditional disciplinary boundaries to encourage critical thinking. Beyond the classroom, special guest lecturers and presentations, field trips, and university-related service activities expand the horizons of Honors students.

Students in TBHC are actively involved in social activities and course programming. Honors students have access to the Honors Reading Room and computer lab, and to Honors housing on a space-available basis. They also have priority registration privileges.

Students may pursue Honors through two distinct programs, University Honors and Honors in the Major.

University Honors

Admission to University Honors is granted by TBHC to qualified incoming freshmen by invitation. 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 and to follow the procedures necessary to enter the program. Prospective Honors students and their parents are encouraged to visit with Honors staff if they have questions.

Students must maintain a minimum 3.2 UCF GPA and a minimum 3.0 GPA in Honors courses in order 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 course work in Honors sections of the General Education Program¹; 2) complete with a "Satisfactory" (S) grade Honors Symposium²; and 3) meet upper-division Honors course requirements determined by college or major³.

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 who receive six or more hours of upper-division credit for the following programs:

1) University Study Abroad Program; 2) The Washington Center; and 3) Undergraduate Research Experience, may receive credit for completion of one upper-division Honors Seminar⁴.

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

GEP	Symposium	Upper-division Major
12 hours	1 hour	See requirements by College ³

¹ When a student has an exceptionally high number of dual enrollment, Advanced Placement, CLEP, or other work that is credited toward GEP required hours, she or he should consult an Honors advisor about fulfilling Honors GEP requirements.

² Honors Symposium is a one-hour course offered in the Fall semester of each year. This course includes guest lectures, video and film presentations, and live performances by guest artists. Only one absence is permitted. A field trip is included as part of the Honors Symposium. Attendance at this series will be mandatory for all students seeking University Honors. The course is graded on a Satisfactory/Unsatisfactory basis.

³ These upper-division requirements for the completion of University Honors are under review and revision by the professional colleges.

The current requirements are as follows:

■ **University Honors Upper-Division Program Requirements: Colleges of Arts and Sciences, College of Education, Hospitality Management, Engineering Technology, and Information Technology majors**

1. Complete three Honors Interdisciplinary Seminars⁴ (9 hours)

■ **University Honors Upper-Division Program Requirements: College of Business Administration**

1. Complete one Honors Interdisciplinary Seminar⁴ (3 hours)
2. Complete two Honors Business Common Body of Knowledge courses (6 hours). Currently, the following sections of Common Body courses are offered in Honors:

BUL 3130H Honors Legal and Ethical Environment of Business (Equivalent to BUL 3130.)	3 hrs
GEB 4361H Honors Business in the International Environment (Equivalent to GEB 4361.)	3 hrs
MAR 3023H Honors Marketing (Equivalent to MAR 3023.)	3 hrs
FIN 3403H Honors Business Finance (Equivalent to FIN 3403.)	3 hrs
ISM 3011H Honors Management Information Systems (Equivalent to ISM 3011.)	3 hrs
MAN 3025H Honors Management of Organizations (Equivalent to MAN 3025.)	3 hrs

Note: Please refer to the “UCF Courses and Descriptions” section of this *Undergraduate Catalog* for information on direct prerequisites for the above courses.

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

■ **University Honors Upper-Division Program Requirements: College of Engineering and Computer Science Excluding Computer Science, Information Technology and Engineering Technology**

1. Complete one Honors Interdisciplinary Seminar⁴ outside the student’s department of major (although it may be within the College of Engineering and Computer Science) 3 hrs
2. Complete one of the following two-semester sequences according to the student’s chosen major. 6 hrs
Students majoring in Electrical, Computer, or Industrial Engineering will take:

STA 3032H	Probability and Statistics for Engineers	
EGN 3373H	Principles of Electrical Engineering	
All other engineering students will take:		
EGN 3310H	Engineering Analysis—Statics	
EGN 3321H	Engineering Analysis—Dynamics	
3. Complete the Honors Engineering Seminar		3 hrs
EGN 4931H	Honors Seminar—Research	

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

■ **Upper Division Course Work (For Computer Science majors)**

Computer Science majors may fulfill University Honors requirements by taking nine credit hours of Honors course work through a combination of computer science courses and at least one Honors Interdisciplinary Seminar:

1. Complete one Honors Interdisciplinary Seminar⁴ (3 hours)
2. Complete two Honors upper-division Computer Science courses (TBA)

■ **University Honors Upper-Division Program Requirements: College of Health and Public Affairs (COHPA) Excluding Molecular Biology and Microbiology majors**

1. Complete one Honors Interdisciplinary Seminar⁴ (3 hours) outside student’s department of major (within or outside COHPA).
2. Complete one Honors Interdisciplinary Seminar⁴ (3 hours) offered by COHPA (within or outside the major) or one COHPA Honors Interdisciplinary Course (EX: Public Affairs Research Methods; Healthcare Ethics).
3. Complete three credit hours of Independent Study or one Honors Interdisciplinary Seminar⁴ (3 hours).

■ **University Honors Upper-Division Requirements for Molecular Biology and Microbiology Majors**

1. Complete one Honors Interdisciplinary Seminar⁴ (3 hours) outside the major.
2. Complete with a grade of “B” or better BSC 3404H Honors Quantitative Biological Methods (4 hours).
3. Complete with a grade of “B” or better PCB 4524H Honors Molecular Biology II (3 hours).

⁴ An Honors Seminar normally is an upper-division offering intended for all majors. Most seminars are strongly interdisciplinary, may be team-taught, and present cutting-edge topics by instructors who must present course proposals for consideration by the University Honors Committee. Enrollments are limited to 20 students. At least one of these seminars will form part of the revised University Honors upper-division curriculum currently under adoption by each college or major. Other approved upper-division Honors courses may be substituted for the Seminar requirement.

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 Honors Office. An *Honors in the Major Handbook* outlining the procedures for completing this program is available in TBHC 102.

Requirements for admission to Honors in the Major are: completion of at least 60 semester 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 Associate Dean 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 in the Major course work as determined by the academic department; and at least three but not more than six hours of Honors Thesis or Project work taken in the college or department of major. Engineering majors must take EGN 4931H in lieu of Directed Readings. 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 or BSC 3404H (for Molecular & Microbiology students only). Students who enroll in the Interdisciplinary Course or in BSC 3404H will write a Thesis Proposal as part of their coursework. 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 all 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 Associate Dean 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.

By the end of the term in which a student plans to graduate with Honors in the Major, the student must file an “Intent to Graduate with Honors in the Major” form with the TBHC Office. 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 him@mail.ucf.edu.

COLLEGE OF BUSINESS ADMINISTRATION



Dean: Thomas L. Keon, BA 230; 407-823-2181
Associate Dean: Bradley M. Braun, BA 230L; 407-823-5094
Associate Dean: E. Taylor Ellis, BA 240; 407-823-2187

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 American Assembly of Collegiate Schools of Business International (AACSB).

Admission to the University of Central Florida **does not** imply admission to the College of Business Administration. Students will only be allowed to enroll in the 3000/4000 level courses taught by the College of Business Administration **after** they have been admitted to the College. Admission to the College will be granted **when** the following are complete:

- Completion of the University General Education program, or an AA degree from a Florida Public Community College.
 - Common Program Prerequisites.
- Students who otherwise meet the University admission requirements, such as entering freshmen and transfer students, will be placed in a Business Administration 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.

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 2010 (BE2010) curriculum focuses on four competencies that are integrated throughout all coursework: Teamwork, Communication, Creativity, and Adapting to Change. Faculty, working with representatives from the business community, help you develop these competencies as you work through the following required courses in the Common Body of Knowledge:

GEB 3031	Cornerstone
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, except in Accounting, Finance, Marketing, Management, and Management Information Systems where an additional requirement of "C" (2.0) or better in *each* course and a UCF minimum 2.0 is required.

Student Load

A student who is enrolled in 15 semester 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 semester hours must obtain permission from the College.

Community/Junior College Transfers Notes

- 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 courses 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.
- 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.
- Florida Public Community College students are advised to complete the Associate of Arts Degree including:
 - The general education requirements
 - The one year Accounting and Economics sequence
 - College Algebra
 - CGS 2100
- 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.
- A minimum of 12 semester hours must be completed at UCF within each individual major and 30 hours within the UCF College of Business.

Advisement

Office of Student Support

Director: Helen Y. Hill; BA 240; 407-823-2184

The Office of Student Support (OSS) is the primary office for undergraduate and graduate academic 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 Student Support staff in BA 240 or by calling 407-823-2184. Visit OSS's home page at: <http://www.bus.ucf.edu/oss/>

Programs and Degrees

Title	Degree
Accounting	BSBA, MSA, MST
Business Administration	MBA, Ph.D.
Economics	BSBA, MAAE
Finance	BSBA
General Business	BSBA, MBA
<i>International Business Tracks:</i>	
Economic Track	BSBA-ECO-IB
Finance Track	BSBA-FIN-IB
General Business Track	BSBA-GEB-IB
Marketing Track	BSBA-MAR-IB
Management Track	BSBA-MAN-IB
Management Information Systems	BSBA, MS
Management	BSBA, MS HR
Marketing	BSBA

Departments and Programs

School of Accounting

Director: A. Judd; BA 437; 407-823-2871

Assistant to Director: S. Smith; BA 438; 407-823-5678

Faculty: Bailey, Bandy, Bobek, Dillard, Dwyer, Evans, Goldwater, Johnson, Judd, Kelliher, Klintworth, Mahoney, Potts, Roberts, Roush, J. Salter, M. Salter, Savage, Smith, Vaughen, Veit, J. Welch,

Mission Statement

The mission of the 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 School of Accounting also offers master's degrees in accounting and taxation. These programs complete the education required to become a CPA. A rigorous and comprehensive accounting curriculum at UCF focuses on the real-world challenges of accounting, emphasizing problem solving, information analysis and computer applications.

Distinctive Benefits

- Strong industry ties allowing for unique opportunities for placement and advancement.
- A competitive internship program that places graduate students in positions with major employers in the community
- The opportunity to enroll in outstanding graduate programs in accounting and taxation.
- A very strong faculty known for their teaching excellence.
- Over a dozen scholarships available to advanced students.
- Active student organizations including the Student Accounting Society and Beta Alpha Psi
- A faculty committed to the continuous improvement of the accounting and taxation programs.
- Outstanding pass rates on the CPA exam.

Degrees: Accounting (BSBA, MSA, MST)

Minors: Accounting

Department of Economics

Chair: D. Hosni; BA 325; 407-823-3266, economics@bus.ucf.edu

Faculty: Anton, Braun, Dickie, Elston, Euzent, Finnoff, Gerking, Gibbs, Hamilton, Hofler, Hosni, Im, Lee, Martin, McHone, Mikhael, Milon, Moore, Pennington, Rungeling, Serogin, Soskin, White, Xander

Faculty Advisor: B. Sen; BA 318; 407-823-2232

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 in the College of Business Administration and a BA degree in the College of Arts and Sciences. The purpose of the College of Business Administration economics major is to provide students with a professional business background

that prepares them for careers in private business and government. The purpose of the economics major in the College of Arts and Sciences 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. The goal of both programs is to 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 these issues. Students interested in a BA in Economics should refer to the Economics Major in the College of Arts and Sciences.

Distinctive Benefits

- Flexible Curriculum: Students tailor the program to their individual interests through a large selection of economics electives.
- International Perspective: Exposure to the global economy through the International economics electives (10), including Area Studies (Europe, Japan, China, Pacific Rim, and Mexico).
- Interdisciplinary Linkages: Economics links with many other disciplines allowing for double majoring in Finance, General Business, and Political Science.
- Teaching quality: Many of the Economics faculty have received Excellence in Teaching Awards.
- Student Organizations: The Economics Club is an active student organization linking students to Alumni.

Degrees: Economics (BSBA, MAAE)
Tracks: International Business
Minors: Economics

Department of Finance

Interim Chair: A. Byrd; BA 420; 407-823-3575

Faculty: Ajayi, Atkinson, Baker, Block, Borde, Byrd, Cheney, Choi, Dalkiran, Dalrymple, Frye, Gilkeson, Greene, McQuillen, Michelson, Millican, Modani, Park, Ramanlal, Scott, Schnitzlein, Singer, S. Smith, Taft, Weaver, Whyte, Winters

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. Students that major in finance are sought by both financial and non-financial firms.

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)
Tracks: International Business
Minors: International Business

General Business

Faculty Advisor: B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

Degrees: General Business (BSBA, MBA, Ph.D)
Tracks: International Business
Minors: For non-Business majors

Department of Management

Interim Chair: F. Jones; BA 335; 407-823-2679

Faculty: Ambrose, Arnaud, Barringer, Becker, Bogumil, Butcher,

Callahad, Callarman, Connell, DeGeorge, Fernald, C. Ford, R. Ford, Gowan, Holland, Huseman, F. Jones, Keon, D. Neubaum, Putschinski, Quinn, Rockmore, Schminke, Stone, Sussan, Uhl-Bien, 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 their course work in Human Resource Management, a specialized area of study, 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 a specific 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.

Distinctive Benefits

- Excellent faculty, known for their creativity and enthusiasm in the classroom, and their commitment to students in and out of the classroom.
- A broad-based training that will open up opportunities in high-growth career areas.
- Internships that provide real-world experience and enhanced job opportunities.
- A "hands-on," applied focus in our courses.

Degrees: Management (BSBA), Human Resources (MS)
Tracks: International Business, General Management, Entrepreneurship

Department of Management Information Systems

Chair: P. Cheney; BA 308; 407-823-3106, Fax 407-823-2389

Faculty: Courtney, Goodman, Haynes, Hightower, Hornik, Jiang, Johnson, Leigh, McNamara, Odisho, Sanders, Szymanski, Thienel, Van Slyke, West

Information systems form both the backbone and nervous system of virtually every business organization today. With the increasingly important role that information systems play in modern business organizations, the timing could not be better to enter this discipline. The objective of the Management Information Systems (MIS) program is to prepare students for exciting and challenging careers in the information systems arena.

MIS involves the study of how organizations use information and information technology to overcome problems or create opportunities. The MIS major prepares students to become problem solvers in a time when information is advertised as the "fourth factor of production," and in an era when government agencies report that one of ten information technology positions is unfilled.

The MIS major prepares students for such entry-level positions as system analysts, programmer-analysts, and database analysts by providing them with a thorough grounding in the principles of information system design and construction. The MIS curriculum includes coverage of computer programming, database design and implementation, networks and data communications, systems analysis, systems implementation, managerial decision making, and managerial aspects of organizational information systems. The strength of the major is its combination of technology skills with a thorough grounding in the principles of all the functional areas of business.

The MIS major is ideal for students who excel at solving problems and who can take responsibility for implementing their solutions in working organizational systems. Students in the program are trained

College of Business Administration

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 high 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 in Management, Management Information Systems Track (MSM/MIS)

Minors: Management Information Systems

Department of Marketing

Chair: R. Michaels; BA 310; 407-823-2108;

<http://www.bus.ucf.edu/marketing/index.htm>

Faculty: Allen, Arnold, Borrieci, Crowson, Das, Davis, Desiraju, Echambadi, Elliott, Fuller, Ganesh, Garcia, Gundy, Gupta, Harris, Howatt, Jordan, Michaels, Quaintance, Rubin, Sarkar, Sooder, Yoon, Whang

The Marketing major at UCF is called *Impact Marketing 2010*, or simply *IM2010*. It provides a superior education in the basics of marketing such as research, customer behavior, professional selling, management, and strategy. Moreover, 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, 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, driving change, and e-business.

A new benefit for Marketing majors is the opportunity to earn a certificate in any of six areas of career interest: selling and sales management, retailing management, e-marketing, sports marketing management, healthcare 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 a 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. Taking a minor in Marketing can add significant value and career flexibility for any student. Another new offering is a Marketing track within the International Business program. If you want a strong International Business education with the career flexibility offered by a degree in marketing, then you should look into this option.

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 tends to provide 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.
- Department offers a minor in Marketing as well as a Marketing track within International Business.
- Twenty 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.
- Department awards approximately 15 scholarships 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 Pi Sigma Epsilon and the American Marketing Association.

Degrees: Marketing (BSBA)

Minor: Marketing

Certificates: Selling and Sales Management,
Retailing Management, e-Marketing, Sports
Marketing Management, Healthcare
Marketing, Services Marketing

Tracks: International Business

For more information, visit <http://www.bus.ucf.edu/marketing/index.htm>, or call 407-823-2108. Department office is located in BA 353.

International Business Tracks

The continuing growth of multinational corporations, international trade and finance, and international strategic alliances underscores the need for skilled managers equipped to handle the complexities of a global economic environment. Compared to a purely domestic operation, international business presents unique opportunities and challenges that require drastically different responses. The international business tracks are designed to provide skilled managers who are equipped to analyze the complexities of operations of businesses in multinational environments.

The increasingly global nature of business has made it a standard practice for firms to require that candidates for top management positions have prior training or experience in international operations. In addition, large financial services organizations and insurance companies, governments, and transnational organizations also have a growing need for managers who understand international business. The tracks are designed to meet the growing worldwide demand for graduates with greater managerial and technical capabilities in transnational business operations. Each track requires 27 credit hours beyond the CBA Common Body of Knowledge (CBK). The 27 credit hours are made up of a combination of required courses in the functional areas, required international courses, and restrictive electives. The required international courses are drawn from a group of six courses that constitute the core of international business. Students in the various tracks are required to take at least three of the six courses and in some cases students may elect to take up to all six courses. This ensures that graduates of the program are adequately equipped to supply the International Business expertise needs of our clientele.

Distinctive Benefits

- Holistic, presenting an overall global perspective of the business operation as a system.
- Multidisciplinary, combining expertise from various business and non-business areas.
- Environmental driven, responsive to the changing demands of economic, financial, political, socio-cultural, legal, and technological forces.
- Experiential, providing opportunities for practical experiences on foreign market penetration strategies, evaluation of investments abroad, international negotiations, and international market research.

COLLEGE OF EDUCATION



Dean: Sandra L. Robinson; 407-823-5529
Associate Dean: Michael C. Hynes; 407-823-6076
Associate Dean: Jennifer C. Platt; 407-823-2046
Assistant Dean: Suzanne M. Martin; 407-823-4260
<http://edcollege.ucf.edu/>

The role of the College of Education at the undergraduate level is to prepare students for careers as early childhood, elementary, secondary, exceptional, physical, vocational education teachers, and sports and fitness professionals. The College of Education offers Bachelor of Science degrees with the following majors:

- Art Education
- Early Childhood Education
- Elementary Education
- English Language Arts Education
- Exceptional Student Education
- Foreign Language Education
- Mathematics Education
- Physical Education
- Science Education
- Social Science Education
- Sports and Fitness
- Vocational Education and Industry Training

Admission to the College of Education

Admission to the College will be granted when students meet the following requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the CLAST examination (no alternatives are accepted)
- Complete common program prerequisite courses

Office of Student Services

Director: Tina M. Smilie; ED building, first floor; 407-823-3723

The College of Education Office of Student Services assists students with orientation, registration information, general academic advisement, college and University academic requirements and graduation certification. Students are assigned a faculty 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 Services or at <http://www.edcollege.ucf.edu/> (click on Student Services).

Admission to the University of Central Florida does not imply admission to the College of Education. Students will be allowed to enroll in the 3000/4000 level courses taught by the College of Education **after they have been admitted to the College.**

Office of Clinical Experiences

Director: Donna Walker-Knight; ED building, first floor; 407-823-2436

Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of every degree program and consist of early field experiences as well as Internship I and Internship II. Placement of students is the responsibility of the College of Education.

Admission to Internship I

Admission to Internship I will be granted when students who have been admitted to the College of Education meet the following additional requirements:

- Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST)
- Possess minimum overall GPA of 2.5
- Achieve a "C" (2.0) or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I by deadline
- Be recommended by the faculty of the department of the student's major
- Meet any special departmental requirements
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5

Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a College faculty coordinator. Students are enrolled in a limited number of related professional courses during the experience. Additional courses may be taken only with the consent of the department chair.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be hired as a teacher. Application for Internship I is made through the Office of Clinical Experiences.

Admission to Internship II

Internship II is a 12 semester hour experience normally completed during the student's last semester. The clinical experience is considered a full-time experience, and students are permitted to enroll in other classes only with the consent of their department chair. Admission to Internship II will be granted when students have met the following requirements:

- Successfully complete Internship I
- Have on file in the University admissions office passing scores on all four parts of CLAST
- Possess a minimum overall GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Possess minimum specialization GPA of 2.5
- A minimum grade of C (2.0) is required in EDG 4323; however, a minimum GPA of 2.5 is required in the professional preparation area
- Complete a formal application for Internship II by deadline
- Be recommended by the faculty of the department of the student's major
- Meet any special departmental requirements

Students must also have completed all methods courses and most of their specialization courses. Some programs (such as Elementary Education) 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. Guest internships will not be permitted.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be hired as a teacher. Several school districts require finger-printing prior to Internship II. Application for Internship II is made through the Office of Clinical Experiences.

Application deadlines are as follows:

February 15 for Fall semester
September 15 for Spring semester

Graduation Requirements

To qualify for graduation, a student must successfully complete all coursework to include a minimum overall GPA of 2.5, a minimum 2.5 GPA in all specialization courses, and a minimum 2.5 GPA in professional preparation courses. In addition, students must pass all applicable sections of the Florida Teacher Certification Exam (FTCE) and complete a portfolio according to program guidelines to meet graduation requirements.

Department of Educational Studies

Chair: Karen L. Biraimah; ED building, 2nd floor; 407-823-2426
Assistant to the Chair: Tace Crouse; ED building, 2nd floor; 407-823-6579

Faculty: Ackley, Allen, Bailey, Becker, Boote, Condy, Deets, Gregoire, Hewitt, Hiatt, Holt, Hutchinson, Johnson, Kaplan, Koger, Loudermilk, Lockett, Lue, Miller, Short, Sluti, Wood

The Department of Educational Studies serves all students in the College of Education. The Department provides instruction in the core professional courses that address the competencies and skills needed by all undergraduate majors. These courses emphasize learning theory, teaching strategies, diversity, and the social, philosophical and historical foundations. The Department provides courses for all masters and doctoral programs in education, and coordinates the core courses for the Curriculum and Instructional Doctoral Program and the Graduate Certificate in Initial Teacher Preparation. The Department houses the Masters of Education in Curriculum and Instruction Program, with M.Ed., M.A. and Graduate Certificate options in Gifted Education, Middle Level Education, and Multicultural and Global Education. Educational Studies graduate courses provide opportunities for students to advance their knowledge and application skills related to multicultural, social, and psychological factors, curriculum and instructional theories, and the historical and philosophical factors that influence education.

Department of Child, Family, and Community Sciences

Chair: Wilfred D. Wienke; ED building, second floor; 407-823-2598
Faculty: Albers, Angelopoulos, Balado, Blanes, Bollet, Casado, Cross, Daire, Englehart, Ezell, Hartle, Hayes, Hines, Hughes, K.D. Jones, L. Jones, Klein, Little, Manning, Martin, Miller, Mumford, Olson, Pankaskie, Platt, Robinson, Spina, Taub, Young

Undergraduate academic major programs leading to bachelor's degrees and certification are offered in Child, Family, and Community Sciences. Students who major in Early Childhood Education are qualified to teach Pre-Kindergarten through grade 3 upon graduation and receipt of a Pre-Kindergarten through Primary Florida Teaching Certificate. (Pre-Kindergarten Exceptional Student Education is embedded in this certification). The department includes specialties in: (a) emotionally handicapped; (b) mentally handicapped and (c) specific learning disabilities at the K-12 levels. Students are responsible for completion of program requirements and are encouraged to review their programs with an assigned advisor.

Several graduate level programs are available in the department.

The Master of Education in Exceptional Education: Varying Exceptionalities is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exception Student Education: Varying Exceptionalities is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.

Also available is the Master of Arts in Physical Education with emphasis in Exercise Physiology and Wellness. Certification and Master's level programs are available in Counselor Education, with emphases on school counseling or mental health counseling. A Specialist Program is available in School Psychology. Several doctoral options are available through the Curriculum and Instruction program.

Department of Teaching and Learning Principles

Interim Chair: Robert Williams; ED building, 2nd floor; 407-823-4836
Assistant to the Chair: Lance Tomei; ED building, 2nd floor; 407-823-0523

Faculty: Armstrong, Baumbach, Blair, Brewer T., Brumbaugh, Buchoff, Camp, Circle, Cohn, Cornett V., Crawford, Dixon, Dombrowski, Duke, DuVall, Everett, Fisher, Frazee, Gaudelli, Gergley, Herold, Higginbotham, Hudson, Hynes, Jeanpierre, Joels, Kazoroski, Lee, Mills, Mitchell, Neville, Ortiz, Ousley, Pagan, Palmer, Redmond, Renner, Roberts, Rohter, Romjue, Schulte, Seeley, Siebert, Sweeney, Torbert, Verkler, Ware, West, Wienke C., Williams, Zygoris-Coe

Elementary/Middle Education

The Elementary Education program is designed for prospective teachers interested in the education of children, five through twelve years of age. Students who major in elementary education are qualified to teach grades kindergarten through six upon graduation and receipt of a Florida teaching certificate.

Secondary/Post Secondary Education and Training

Programs in this area are designed for prospective teachers/trainers interested in working with students in a specific academic or vocational area in middle/junior high school, high school, selected post-secondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, Sports and Fitness, and Vocational Education and Industry Training. The Vocation Education and Industry Training degree also offers a track specifically designed for students seeking state certification in Business Education (6-12).

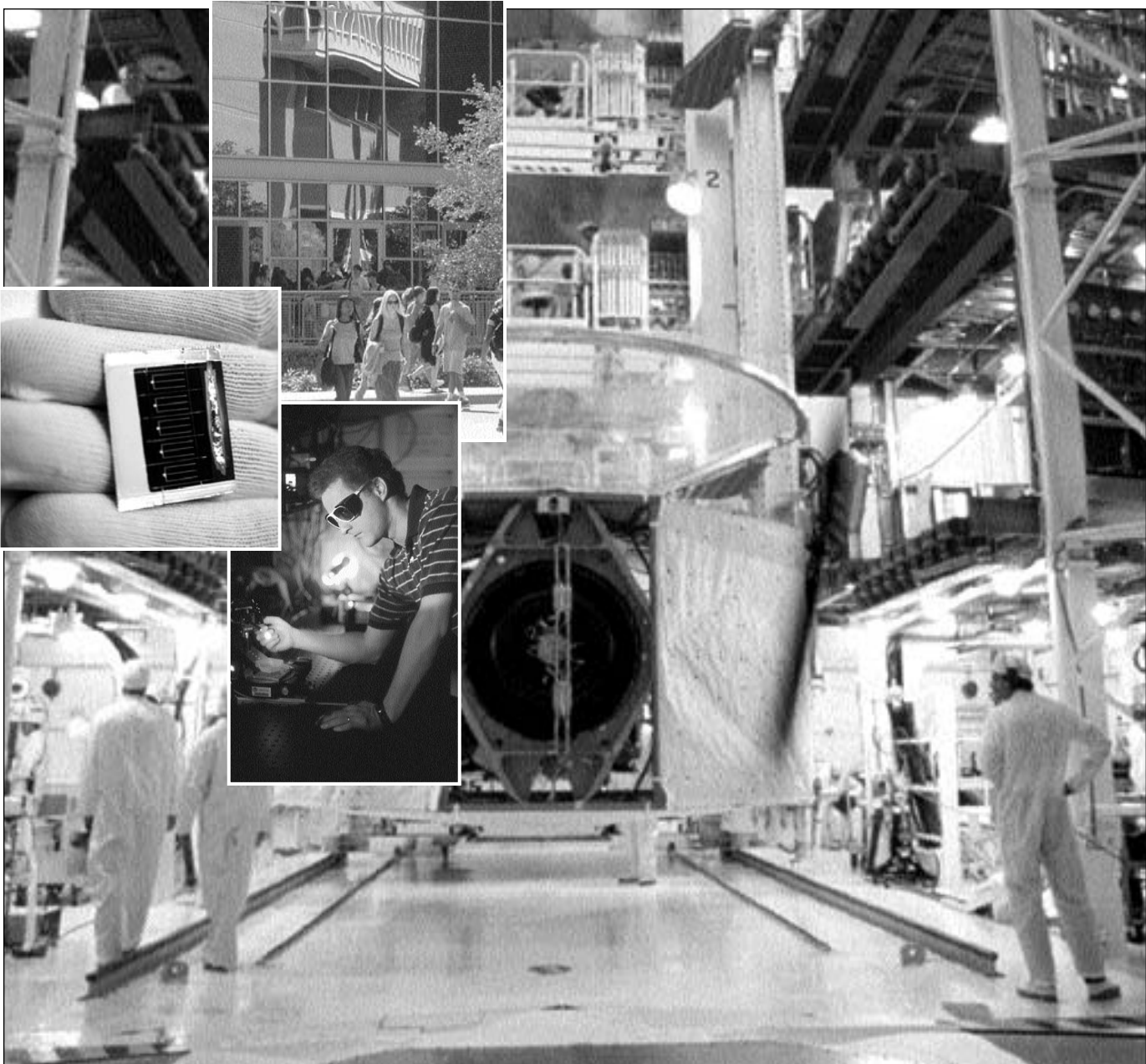
K-12 Education

Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. Specialization is available in Art, Foreign Language (French and Spanish), Reading, and Physical Education.

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 ENGINEERING AND COMPUTER SCIENCE



Dean: M.P. Wanielista; ENG2 202; 407-823-2156
Associate Dean for Research: D.R. Reinhart; ENG2 202; 407-823-2156
Assistant Dean for Academic Affairs: J. F. Nayfeh; ENGR 107; 407-823-2455
Associate Dean for Graduate Affairs: I. Batarseh; ENGR 107; 407-823-2455
Director, Academic Support Services: Melissa Falls; ENGR 107; 407-823-2455
Director of College Honors Programs: A. J. Gonzalez, ENGR 407; 407-823-5027

Undergraduate Majors and Degrees

Aerospace Engineering	BSAE
Civil Engineering	BSCE
Civil Engineering - Construction Engineering Concentration	BSCE
Computer Engineering	BSCpE
Computer Engineering - Software Engineering Concentration	BSCpE
Computer Science	BS

Electrical Engineering	BSEE
Electrical Engineering - Wireless Communication Concentration	BSEE
Electrical Engineering - Microelectronics Concentration	BSEE
Electrical Engineering Technology - Computer Systems Concentration	BSEET
Electrical Engineering Technology - Electrical Systems Concentration	BSEET
Engineering Technology - Design Concentration	BSET
Engineering Technology - Operations Concentration	BSET
Engineering Technology - Space Systems Concentration	BSET
Environmental Engineering	BSEnvE
Industrial Engineering	BSIE
Information Systems Technology	BS
Information Technology	BS
Mechanical Engineering - Energy Systems Concentration	BSME
Mechanical Engineering - Mechanical Systems Concentration	BSME
Mechanical Engineering - Materials Concentration	BSME

Integrated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering, Engineering Technology, and the Information Technology Program are offering an integrated 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 nine hours of intermediate level (5000) graduate courses with a grade of "B" or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the individual 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. A quality, diverse faculty and student body working other disciplines, will achieve high standards in all aspects of education, research and technology application. These accomplishments will take place in a College dedicated to diversity, attaining quality, resource expansion and partnerships throughout all of its operations and programs.

College Mission Statement

Our primary mission is to further the knowledge and practice of the engineering and computer science professions in Central Florida, the state and the nation by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, preparing a diverse student body to be effective, contributing members of a technological society and life-long learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of humankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

College Core Values

- Honesty: We tell the truth and are aboveboard and candid.
- Integrity: We foster trust and are consistent, always taking responsibility for our actions.
- Professionalism: We adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: We pursue life outside of our professional environment, giving our family a priority.
- Altruism: We work as a team, help each other, and sacrifice for the common good. We understand that our work is part of a larger purpose and plan.

College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate and graduate programs
- A model for university outreach, globalization and partnerships
- An organization committed to obtaining the highest quality standards in all phases of its operations, processes, and management
- A organization successful in obtaining resources to support academic development

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 (SEECs) and three engineering departments: the Civil and Environmental Engineering (CEE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Electrical Engineering and Computer Science is comprised of the Electrical Engineering Department, Computer Engineering Department, and Computer Science Department and Information Technology. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

All components of the Engineering and Computer Science Division, except Information Technology, also offer advanced studies leading to master's degrees and the Doctor of Philosophy degree; see the Graduate catalog for further information on these graduate programs. The undergraduate engineering programs in Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering are fully accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238. ABET is recognized by the U.S. Department of Education as the sole agency responsible for accreditation of educational programs leading to degrees in engineering, engineering technology, and related engineering areas. The Computer Science program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238.

The Engineering Technology Division and Department offers baccalaureate concentrations in Design, Operations and in Space Sciences, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems and in Computer Systems, both leading to the Bachelor of Science in Electrical Engineering Technology (BSEET) degree. Both the BSET and BSEET degrees are accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, FAX: (410) 625-2238. The Engineering Technology Department also offers a Bachelor of Science degree in Information Systems Technology (BS). This degree is designed for students who have completed 33 credit hours of lower level technical courses at a community college in the areas of networking, programming, information technology, computer science, computer engineering and technology or closely related disciplines.

The College houses the ROTC Division for those students desiring to pursue military training while earning their degree. The AFROTC program offers a minor in Aerospace Studies, and the AROTC program offers a minor in Military Science.

The Honors Program in the College of Engineering and Computer Science

The engineering and computer science leaders of tomorrow must not only have impeccable technical credentials, but must also be able to provide strong leadership within the general community in which they live. With this in mind, the Honors Program in the College of Engineering and Computer Science offers outstanding undergraduate engineering, engineering technology, and computer science majors an enriched educational, technical, professional and cultural

experience that significantly augments the basic curricula. Honors students comprise academically superior students who commit, upon acceptance into the program, to do broad as well as advanced work in a chosen area.

The objective of the Honors Program is to provide exceptional students with an opportunity to express their creativity and problem-solving abilities through challenging coursework and participation in research projects. In addition, the program exposes students to a wide variety of issues dealing with the role of engineers and computer scientists and the impact of the profession on society. Honors students also participate in several programmed activities, such as lectures by distinguished scholars, engineers, and public figures, visits to local and regional industries and to governmental and military research facilities.

There are two programs available to eligible CECS students: 1) the University Honors Program (see the section on the University Honors Program found in The Burnett Honors College section of this catalog) and 2) the Honors in the Major Program (HIM).

The Honors in the Major Program

The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate under the guidance of a faculty member in his/her major. The Honors in the Major represents a total of six semester 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 semester hours), plus three semester 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 semester hours, including at least 12 graded, upper division semester 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, Avelino Gonzalez, Engineering Building, room 411. For more information about The Burnett Honors College programs, please visit their homepage at <http://pegasus.cc.ucf.edu/~honors/>.

The LEAD Scholars Program in the College of Engineering and Computer Science

Engineering, engineering technology, and computer science students may also participate in the LEAD (Leadership Enrichment and Academic Development) Scholars Program (see the section on the LEAD Scholar Program found elsewhere in this catalog).

Additional Information on UCF Baccalaureate Engineering, Engineering Technology, and Computer Science Programs

Information on each UCF engineering, engineering technology, computer science, and information technology program follows, and more current information can be found on the College home page at <http://www.cecs.ucf.edu/>, and on the home pages of each department. For the home page associated with a particular program, see the listing for that department on the following pages of this catalog.

Department of Civil and Environmental Engineering

Chair: A.E. Radwan; ENG2 211; 407-823-2841,
Fax: 407-823-3315

Faculty: Abdel-Aty, Al-Deek, Block, Chopra, Cooper, Dietz, Hagen, Head, Hong, Kuo, Nnadi, Oloufa, Onyemelukwe, Randall, Reinhart, Taylor, Wanielista, Wayson, Yeh, Zhao

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSCE) and Environmental Engineering (BSEnVE).

The Civil Engineering Program

The Civil Engineering major is concerned primarily with fundamental civil engineering design and analysis in such areas as structures, geotechnical engineering, sanitary engineering, water resources, transportation engineering, and construction engineering. Civil Engineering students are required to take a minimum of two Project Design Courses (out of six offered), which synthesize various pre-requisite course offerings into a design project. Students in the Civil Engineering with Construction option are required to take two capstone senior design courses: Construction Design Project and Geotechnical Engineering Design. These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission

The Civil Engineering Program Faculty 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 Civil Engineering graduate education and research.

Educational Objectives

1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geo-technical, water resources, transportation, construction, surveying, and environmental.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The Environmental Engineering Program

The Environmental Engineering major is concerned primarily with the interactions with humans and their environment and the planning, design, and control of systems for environmental quality management for water, land, and air environments.

Environmental Engineering students are required to take a minimum of two Project Design Courses (out of four offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually "open-ended" and duplicate real world engineer-

ing 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 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 Environmental Engineering graduate education and research.

Educational Objectives

1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Environmental Engineering such as solid waste, air pollution, water and wastewater treatment, and water resources.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

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

Department Policy for Dual BS Degrees in Civil and Environmental Engineering

The faculty of the Civil and Environmental Engineering Department believe that a dual degree from our department should reflect a significant achievement of students, and therefore a significant increase in knowledge and formal coursework above the requirements for a single degree. Any undergraduate in Civil or Environmental Engineering desiring to obtain his or her Bachelor's degree in both disciplines shall meet the following requirements:

- the student shall meet all individual requirements for each degree
- the student shall take 24 hours of approved courses beyond the requirements for a single degree
- the coursework must include a minimum of four different capstone design courses, two from each program
- the student shall notify the Chair of his or her intention to pursue a dual degree at least two full semesters prior to the expected graduation date, and shall have a "program of study" prepared and approved by the Chair

Additional notes:

- All students, by meeting the requirements for each degree, will be able to represent themselves as either a Civil Engineer or an Environmental Engineer or both.
- The 24 hours represents two additional semesters of full time enrollment, and represents the minimum requirements for a second degree.
- The 24 hours of courses beyond a single degree means that, currently, 152 hours of approved coursework would be required for the dual degree.
- The 24 hours of courses would include all the required courses of the other discipline (15 hours) plus two additional capstone design courses plus one technical elective (as approved by the Chair).
- The dual degree 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.

School of Electrical Engineering and Computer Science

Director: TBA; CSB 260; 407-823-0345

Faculty: Allen, Bassiouni, Batarseh, Bauer, Boloni, Brigham, Chatterjee, DeMara, Deo, Dutton, Ejnoui, Favorov, Foroosh, Frederick, Gelenbe, Georgiopoulos, Gerber, Gomez, A. Gonzalez, F. Gonzalez, Guha, Haralambous, Heinrich, Hua, Hughes, Jones, Kasparis, Klee, Kocak, Lang, Lee, Leeson, Liou, Lisetti, Llewellyn, Lobo, Malocha, Marin, Marinescu, Mikhael, R. Miller, Moshell, Mukherjee, Orooji, Parsons, Pattanaik, Petrasko, R. Phillips, Qu, Reinhard, Richie, Rogers, Rolland, Schiavone, Shah, Sundaram, Turgut, Vemulapati, Wahid, Wei, Workman, A. Wu, T. Wu, Yuan

Electrical and Computer Engineering Programs

The Electrical and Computer Engineering programs offer baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BSCpE). Graduate degrees leading to the Master of Science in Engineering (M.S.E.) and Doctor of Philosophy (Ph.D.) are also offered.

The curriculum provides an integrated experience including humanities and social sciences, mathematics and basic sciences, engineering core, computing, and design experience. The laboratory experiences appropriately combine theory and practice in the Electrical and Computer Engineering programs through a logical progression of courses. Design experiences start with the first circuits course, EGN 3373, and progress to the senior design capstone courses. This senior design experience is a two-semester sequence totaling six credit hours. Aspects of engineering economics, administration, oral presentation, professional issues such as ethics, safety and environmental impact are also covered in the design courses. The design projects required in the design course sequence address real-life problems, and the students work in a team setting. Also, several projects are developed jointly with our industrial partners.

The Computer Engineering Program

The Computer Engineering program contains a minimum of 24 credit hours of design experience, which includes courses listed as Computer Systems Design I and II (EEL 4767C and EEL 4768C), Engineering Applications of Computer Methods (EEL 4832), Engineering Data Structures (EEL 4851C), and Introduction to Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experiences in specialty areas such as computer architecture, intelligent systems, networking, software engineering, and simulation systems.

Mission

The mission of the Bachelor of Science in Computer Engineering Degree Program is to educate students to become highly skilled in the principles and practices of computer engineering and develop computer engineers that meet market needs.

Objectives

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in computer engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the computer engineering discipline, including the ability to design systems and processes, conduct and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The Electrical Engineering Program

The Electrical Engineering program contains a minimum of 18 credit hours of design experience. This is achieved through such courses as Linear Control Systems (EEL 3657), Electronics I and II (EEL 3307C and EEL 4309C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Computer Systems Design I (EEL 4767C) Electrical Networks (EEL 3122C) and

Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experience leading to work in communications, controls, image and signal processing, microelectronics and solid state devices, microwaves and electromagnetics, optical engineering, and power/power electronics.

Mission

The mission of the Bachelor of Science in Electrical Engineering Degree Program is to educate students to become highly skilled in the principles and practices of electrical engineering and develop electrical engineers that meet market needs.

Objectives

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in electrical engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the electrical engineering discipline, including the ability to design systems and process, conduct, and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The mission statement and objectives for the Computer Engineering and Electrical Engineering programs are electronically posted and continuously updated. More information on the Computer and Electrical Engineering programs can be found on the home page at <http://www.seecs.ucf.edu>.

The Computer Science Program

The Computer Science program offers courses and programs leading to Bachelor of Science, Master of Science (see *Graduate Catalog*), and Doctor of Philosophy (see *Graduate Catalog*) degrees in Computer Science. In addition, the program offers minors in Computer Science, Applied Computer Science, and Computer Information Technology.

The program strives to meet the requirements for professional careers and research in software development and computing systems technology by producing graduates with a broad base of formal course work. Students may use required elective credit to concentrate their degree in one of many research areas, including computational biotechnology, computational complexity, computational geometry, computer architecture, computer graphics, computer networks, computer simulation, computer vision, databases systems, design and analysis of algorithms, distributed computing, digital media, evolutionary computing, graph theory, machine learning, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, software engineering and VLSI design tools and hardware algorithms.

Research facilities are organized around laboratories directed by faculty members. Facilities in these laboratories change rapidly, and are generally funded through external research grants, supplemented by grant matching and startup funds from SEECS. To learn about the current status of research facilities and projects, visit faculty web pages. These may be found by following links from the computer science home page at <http://www.cs.ucf.edu>.

Mission

The mission of the Computer Science program is to educate majors in the principles and practices of computer science, preparing them for graduate school, for careers in software development and computing technology, and for a lifetime of learning.

Objectives

1. CS majors should be practiced in the design and analysis of algorithms using mathematical and statistical methods and techniques.
2. CS majors should be proficient in the use of modern and widely-used programming languages.
3. CS majors should be practiced in abstract reasoning and modeling of complex real-world systems.
4. CS majors should be practiced in oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing tech-

nology and applications.

5. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
6. CS majors should be highly competitive in securing entry-level positions in software and computer system development industries.
7. The top fifteen percent (15%) of all graduating CS majors shall be qualified and prepared for pursuing graduate studies in the top tier graduate schools in Computer Science.

The Information Technology Program

The Information Technology program offers courses leading to the Bachelor of Science degree in Information Technology. Information Technology encompasses computer hardware, software, peripheral devices and their use in communication networks and information systems. IT-related disciplines include database engineering, network engineering, performance planning, system security, digital media design, and web server design. The program provides students a strong conceptual core, which will prepare them to be lifelong learners, along with significant hands-on experience. The inclusion of advanced courses in technical writing, a course in ethics, and five upper division courses in an area outside information technology will prepare these students to deal with the subject areas and communicate in the parlance of the industries in which they choose to work. Basically, students will have an interdisciplinary core in which the principles and practices of the three disciplines of the School are presented in a cohesive, connected manner. They will then create their own multidisciplinary component by taking upper division courses that are typically outside the College of Engineering and Computer Science.

Mission

The mission of the Bachelor of Science in Information Technology Degree Program is to educate students in the science and practices of information technology, preparing them for a lifetime of learning and for careers in information technology as well as in a wide variety of disciplines that integrate information technology into their respective fields of activity.

Objectives

1. Graduates will learn the principles and practices of information technology, along with the mathematical and engineering foundations of this discipline.
2. Graduates will obtain the skills to solve complex problems via the development of models, and the design, implementation, and analysis of computer realizations of these models.
3. Graduates will receive an education that enables them to design, implement, and administer complex distributed information systems, including the archival databases and the communication infrastructures associated with such systems.
4. Graduates have the opportunity to obtain a strong background in at least one discipline, outside information technology, in which information technology plays a critical role.
5. Graduates will be prepared for successful careers in information technology. This preparation will include the abilities to work in teams, to communicate effectively, and to experience a lifetime of learning.

School of Electrical Engineering and Computer Science Policies and Procedures

The School's web site (<http://www.seecs.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.

Minors: Applied Computer Science, Computer Information Technology, and Computer Science

Certificates: Applied Computer Science and Computer Information Technology

Department of Industrial Engineering and Management Systems

Chair: Lesia Crumpton-Young; ENG2 312; 407-823-2204, Fax 407-823-3413

Faculty: Armacost, Chandra, Crumpton-Young, Elshennawy, Hoekstra, Hosni, Kotnour, Kulonda, Lee, Malone, McCauley-Bell, Mollaghasemi, Mullens, Pet-Armacost, Proctor, Rabelo, Ragusa, Reilly, Schrader, Sepulveda, Stanney, Thompson, Whitehouse, Williams

Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner and with 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 4116 and EIN 4891.

Mission

To produce industrial engineering professionals and leaders who, working alongside their coworkers, can design and improve operations in industry, business, and government, making them more productive, more responsive, and producing goods and services of higher value to the customer for the global economy of the 21st century.

Objectives

1. BSIE graduates will demonstrate knowledge of math, science, and engineering fundamentals. Specifically, the student will have the ability to:
 - Demonstrate general design principles.
 - Use fundamental engineering techniques, skills, and tools for engineering practice.
 - Analyze and interpret data to produce meaningful conclusions and recommendations.
2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:
 - Design systems, components, and processes to meet desired needs.
 - Identify, formulate, and solve industrial engineering problems.
 - Use industrial engineering techniques, skills, and tools for engineering practice.
 - Be a productive member of multi-disciplinary teams.
 - Communicate effectively in both written and spoken presentations.
 - Incorporate contemporary issues into the practice of industrial engineering, including global communication.
 - Have the knowledge to become a Professional Engineer (PE) in the IE discipline.
3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:

- Make decisions in light of professional and ethical responsibilities.
 - Understand the impact of engineering solutions in a global and societal context.
 - Understand contemporary issues into the practice of industrial engineering.
 - Engage in life-long learning.
4. BSIE graduates seeking professional employment or admission to graduate education programs will be successful in doing so within six months of graduation.
 5. IEMS students will receive relevant curriculum content in a learning environment that facilitates learning and retention.

The mission statement and objectives for the Industrial Engineering programs are electronically posted and continuously updated. More information on the Industrial Engineering program can be found on the Industrial Engineering Department home page at <http://www.iems.ucf.edu>.

Department of Mechanical, Materials, and Aerospace Engineering

Chair: Ranganathan Kumar; ENGR 307; 407-823-2416, Fax 407-823-0208

Faculty: An, Bandary, Bishop, R. Chen, Q. Chen, Chew, Chow, Coffey, Conway, Desai, Dhery, Durrance, Giannuzzi, Hagedorn, Ilgbusi, R. Johnson, Kapat, Kassab, Klemeny, K. Lin, Minardi, Moslehy, Nayfeh, Nicholson, Peterson, Seal, Sohn, Suryanarayana, Vaidyanathan, Ventre, 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 provide the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Aerospace Engineering Program Educational Objectives and Outcomes

Career Preparation: To prepare graduates for employment as engineers in aerospace or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize aeronautical systems or space systems, and will have a command of corresponding engineering principles. Among the obvious career opportunities are the design and development of aircraft, missiles, and spacecraft systems. Aerospace technologies are also important and applicable to power applications such as turbomachinery. Also, many environmental problems associated with wind effects on buildings, structures, etc., are

appropriate to the methods and technology of aerospace engineering.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in aerospace technology, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

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

Life-long Learning: To produce graduates who believe that their undergraduate aerospace engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Mission: Mechanical Engineering

In support of the University and College missions, the Mechanical Engineering program at UCF is committed to provide the highest quality engineering professionals and leaders. Through cooperative efforts with regional industry, our graduates will be well prepared for their role as mechanical engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Mechanical Engineering Program Educational Outcomes and Objectives

Career Preparation: To prepare graduates for employment as engineers in mechanical or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize mechanical systems, energy systems, or materials, and will have a command of corresponding engineering principles. Among the career opportunities are power generation, mobility engineering, manufacturing, nuclear applications, from zipper to space shuttle.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in mechanical technologies, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

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

Life-long Learning: To produce graduates who believe that their undergraduate mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Department of Engineering Technology

(The Engineering Technology Department (ENT) is located in the Engineering Building, Room 207.)

Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746

Assistant Chair: A. Rahrooh; ENGR 212; 407-823-4749

Assistant Chair: R. Coowar; ENGR 207; 407-823-4741

Faculty: Coowar, Denning, Ducharme, Misconi, Morse, Motlagh, Osborne, Rahrooh, Rogers

Mission

The mission of the Engineering Technology program is to educate students to become professional technologists who meet the current needs of industry.

Objectives

1. Provide excellent curriculum content (e.g. math, science, and engineering technology principles, discipline-related topics and skills, and competencies in communication, problem solving, teamwork) to prepare students for professional practice in engineering technology.
2. Provide an educational program so graduates are successful in attaining professional employment.
3. Provide an excellent learning environment so the graduates are competitive with other BS Engineering Technology graduates from other U.S. institutions.
4. Provide educational content so graduates understand and value

professional ethics, integrity, and diversity.

The mission statement and objectives for Engineering Technology are electronically posted and continuously updated. More information on the Engineering Technology programs can be found on the ENT Department home page at <http://www.ent.ucf.edu>.

Bachelor of Science in Electrical Engineering Technology (BSEET)

Coordinator: Alireza Rahrooh

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 two 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.

Bachelor of Science in Engineering Technology (BSET)

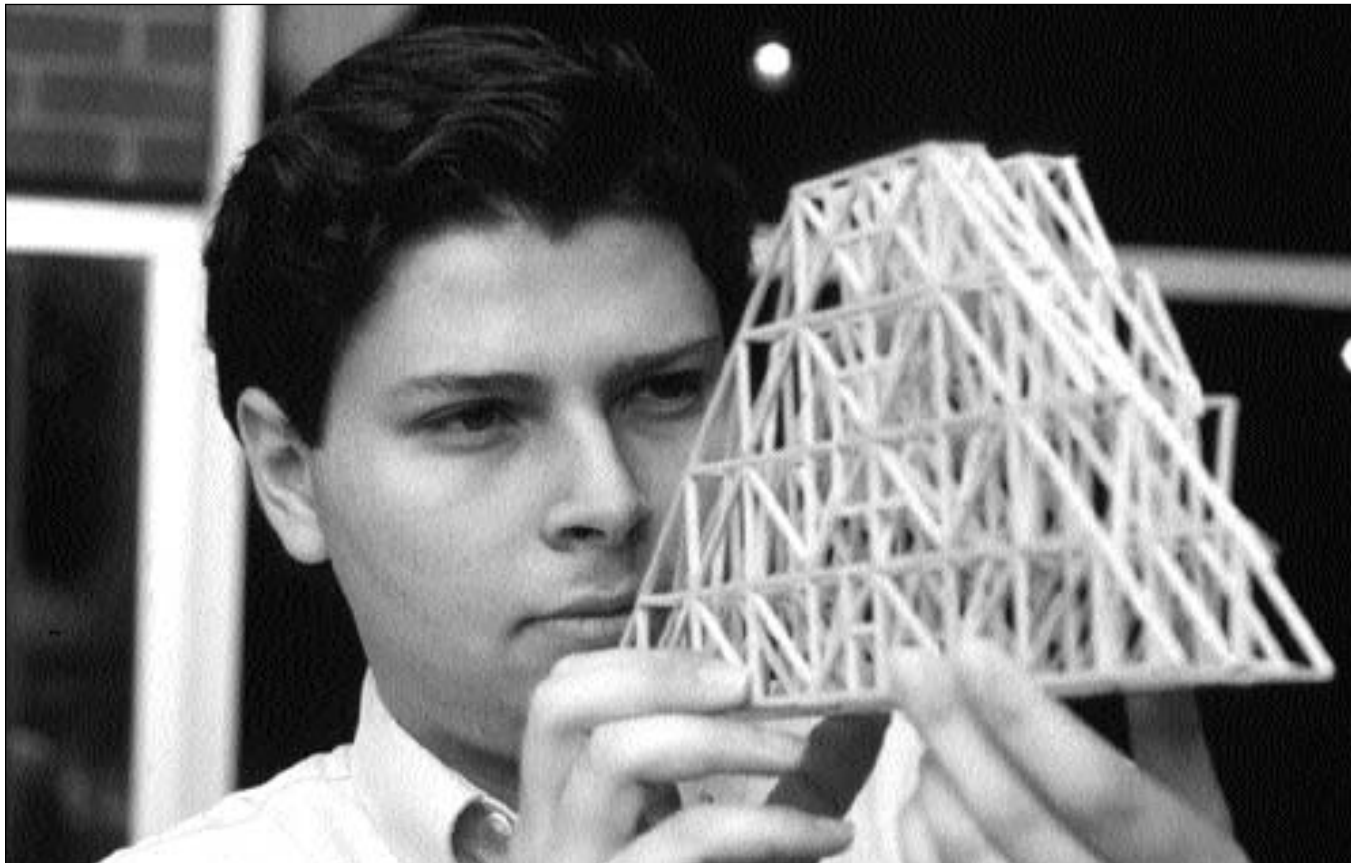
Coordinator: Lucy Morse

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. A new program in Space Science Technology was added to the BSET program in 2003. This program 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, both concentrations in the BSET program have a common lower division core as well as a common upper division core.

Bachelor of Science in Information Systems Technology (BS)

Coordinator: Bahman Motlagh

The Engineering Technology Department also offers the Bachelor of Science degree in Information Systems Technology (BS), designed to accept Associate of Science (AS) degree graduates from community college programs in Computer Programming Technology, Digital Communications, and Networking. The IST curriculum provides the AS graduate with additional course work in networking and computer systems. It also provides skills and knowledge related to project management in Information Technology. A characteristic of this curriculum is that it contains less mathematics and natural science than do the BSET and BSEET curricula.



Reserve Officer Training Corps

Air Force ROTC (Aerospace Studies)

Chair: Lt Col Wieck; Trailer 501, Room 103; 407-823-1247,
Fax 407-823-2265, DSN 960-8647

Faculty/Staff: Major Nowotny, Major Turner, Captain Crawl, TSgt
Fields, SSgt Crawford, and Mrs. Fioramanti, Office Manager

The Department of Aerospace Studies provides pre-commissioning education for qualified students who desire to serve as commissioned officers in the active duty Air Force. The department offers four-year, three-year, and two-year Air Force ROTC programs. The four/three-year program provides on-campus study during the freshman through senior years. The two year programs allow community college transfer students and other students with two academic years remaining in either undergraduate or graduate status to earn an Air Force commission while completing their studies. All programs offer scholarship opportunities to selected students. Students are invited to write or visit the Department of Aerospace Studies to obtain additional information. The Air Force retains sole discretion whether or not any applicant is qualified for pre-commissioning education through the Air Force ROTC. More information on the Aerospace Studies program can also be found on the AFROTC home page at <http://airforce.ucf.edu>.

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 cur-

riculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

Leadership Laboratory

Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Requirements for entry into the Professional Officer Course

- Be at least 17 years of age at the time of acceptance
- Be able to complete the Professional Officer Course and complete all degree requirements prior to reaching age 29 if entering Flight Training, or before age 30 (can be waived to age 35) if entering a non-flying Air Force specialty
- Pass the Air Force Officer Qualifying Test
- Pass an Air Force medical examination
- Pass the Air Force Physical Fitness Test each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or six weeks)
- Enlistment in the Air Force Reserve certifying agreement to complete the POC and accept an Air Force Commission. This enlistment is terminated upon receipt of a commission

Monetary Allowance

All contracted students enrolled in the Professional Officer Course receive a tax-free monetary allowance based on their academic classification.

Air Force ROTC Scholarship Program

Scholarships are phased at four, three, two, and one-year opportunities. This system provides opportunities to those students enrolled in certain academic majors. Depending on state residency and credit hours, these scholarships may provide for full tuition and fees, and an allowance for textbooks. A POC Incentive scholarship is available to students enrolled in the last two years of our program regardless of academic major as long as they graduate prior to becoming 31 years old and have a minimum term GPA of 2.50 or greater. The POC incentive scholarship pays up to \$3000 per academic year toward tuition and fees and \$450 per academic year 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 Lackland Air Force Base in San Antonio, TX, Tyndall Air Force Base in Panama City, FL or Ellsworth AFB in Rapid City, SD. This course includes junior officer training, officer career orientation, and physical conditioning. Students enrolled in the four-year AFROTC program will attend a four-week summer course, normally upon completion of the General Military Course. A six-week summer course, which includes a modified version of the General Military Course, is required for students entering the two-year AFROTC program. These students must complete their summer training prior to their formal enrollment in the Professional Officer Course curriculum. These students need to contact the department early in the Fall prior to the Summer Field Training.

Officer Commissions

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 with a reserve commission, 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 John J. Ruzich; Trailer 501, Room 110

Faculty/Staff: MAJ Christensen, MAJ Sanderson, CPT Huggins, CPT Neslon, CPT Plumtree, MSG Helms, SFC Gibb, SSG Barajas, SSG Blount, SGT Rodriguez, Ms. Martin, Office Manager,; 407-823-2430, Fax 407-823-5324

The University of Central Florida, in cooperation with the US Army, provides an opportunity to earn a commission as a Second Lieutenant and compete for an active duty assignment or accept a guaranteed Army Reserve or National Guard position. The program offers both a four-year and two-year option for students working on their Associate of Arts, Baccalaureate or Graduate degrees. The two-year option allows students with at least two academic years remaining in either undergraduate or graduate studies to meet all requirements for commissioning. Students may be eligible for the Army's Simultaneous Membership Program (SMP) which combines Reserve Forces Duty with Army ROTC officer training courses on campus. Students earn about \$7500.00 in their last two years. **Note:** The Army retains sole discretion - in accordance with public law and military regulation - regarding whether or not any applicant is qualified for pre-commissioning education through Army ROTC. More information on the AROTC program can be found on the AROTC Department home page: <http://army.ucf.edu>

Curriculum

The Military Science on-campus curriculum is divided into two phases: *Basic Military Science Course* and *Advanced Military Science Course*.

1. Basic Military Science

- A. The Basic Military Science courses, open to both men and women, are designed for four-year participants and are normally offered during the freshman and sophomore years. These courses address military organizations, equipment, weapons, map reading, land navigation, management skills, grade structure, communications and leadership. There are non-contractual obligations or commitments for students in the Basic course phase. The Basic Course phase offers students the opportunity to see what Army ROTC is all about (MSL 1101, 1102, 2201, 2202). Students will also participate in a Field Training Exercise (FTX). These courses fulfill pre-requisite requirements for entering the Advanced Military Science phase.
- B. Requisites for admission to the Basic Course:
- Enrollment in a Baccalaureate or Master's degree program
 - Full-time student status

2. Advanced Military Science

- A. The Advanced Military Science courses, open to both men and women, are taken during the junior and senior years. These courses specialize in small unit tactics, how to prepare and conduct military training, military justice system, staff procedures,

decision making and leadership. Students who desire a commission as a Second Lieutenant are contracted and paid a tax-free subsistence of \$350.00 per month up to 10 months during the school year. Each student is required to take courses that meet the Army's Professional Military Education Requirements.

Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced program. They must also successfully complete a 32-day Advanced Leadership Camp at Fort Lewis, WA, normally between their junior and senior years.

- B. Requisites for Admission to the Advanced Course:
- Successful completion of Basic Course, Basic Camp (LTC), JROTC, prior military service or permission of the Department Chair
 - Must be at least 17 years of age at the time of entry, but not more than 30 years of age at the time of commissioning (30-year age regulation may be waived for veterans up to age 34)
 - Successful completion of an Army physical examination
 - Agreement to complete the Advanced Course requirements and serve on either Active, Reserve, or National Guard duty as a commissioned officer
 - Full-time undergraduate student status (minimum of 12 hours); full-time graduate student status (minimum six hours)
 - US Citizen
 - A minimum cumulative GPA of 2.0 is required to contract non-scholarship cadets, and a minimum cumulative GPA of 2.5 is required for scholarship consideration.

3. Monetary Allowance

All contracted and scholarship students enrolled in the Advanced Military Science Course receive a tax-free monetary allowance of \$350.00 or \$400.00 per month during the school year.

4. Scholarships

Four, three and two-year scholarships are available for all students who qualify. These scholarships provide full tuition, books and fees for Fall and Spring semesters. In addition, all contracted scholarship students also receive the \$250.00, \$350.00 or \$400.00 monetary allowance per month during the school year. Contact the Enrollment Officer for additional information at 407-823-5383.

5. Placement Credit

Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

6. Daytona Beach Campus Students

These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training Courses

1. Basic Course Summer Training (Leader Training Course)

A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning within two years. Students attending the summer course receive approximately \$700.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

2. Specialized Summer Training Courses

Qualified students can be selected to attend specialized military training occurring the summer months. These areas of training include: a) Airborne Training; b) Air Assault Training; c) Northern Warfare Training; d) Cadet Troop Leadership Training; e) Master Fitness Training; and f) Mountain Training.

3. **National Advanced Leadership Camp (NALC)** All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student's leadership performance and potential. Students normally attend NALC after their junior year and receive approximately \$800 pay.

COLLEGE OF HEALTH AND PUBLIC AFFAIRS



Dean: Belinda R. McCarthy; HPA I 365; 407-823-0171
Associate Dean: Joyce Dorner; HPA I 365; 407-823-0171
Executive Interim Associate Dean, Graduate Studies: Robert Gennaro; HPA 365; 407-823-0171
Assistant Dean, Undergraduate Studies: Pamela Kirby; HPA I 365; 407-823-0171
Assistant Dean, Student Affairs: Melvin Rogers; HPA I 365; 407-823-0171; <http://www.cohpa.ucf.edu>

The College of Health and Public Affairs houses seven departments and schools: the School of Nursing, the School of Social Work, and the departments of Communicative Disorders, Criminal Justice and Legal Studies, Health Professions, Molecular Biology and Microbiology, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health and public affairs, social and justice services, and basic and applied life sciences.

General Requirements for the Bachelors Degree

Some Schools, Departments or Programs in the College are upper division, limited access programs. Acceptance by or registration at the University does not constitute admission to the following: Schools of Nursing and Social Work, and the Programs in Athletic Training, Cardiopulmonary Sciences, Medical Laboratory Sciences, Health Information Management, and Radiologic Sciences.

Application must be made to the appropriate program in health sciences. For Social Work and Nursing, contact the appropriate School. Additional information regarding prerequisites and grade point averages may be obtained from the desired School, Program or Department.

The following Departments and Programs do not have restrictions on admissions: Communicative Disorders, Criminal Justice/Legal Studies, Molecular Biology/Microbiology, Public Administration, Health Science Generalist, and Health Services Administration.

Academic Advisement

Office of Student Support

Director: Judith A. Sindlinger; HPA2 115; 407-823-0010;
 E-mail: hpainfo@pegasus.cc.ucf.edu

The College of Health and Public Affairs Office of Student Support 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 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. Pre-health Professions Advisement for students interested in pursuing professional degrees is handled in the Pre-Health Professions Advisement Office located in HPA I 124, 407-823-2670.

Programs and Degrees

Major	Degree
Cardiopulmonary Sciences	BS
Communicative Disorders	BA, BS, MA
Criminal Justice	BA, BS, MS
Health Information Management	BS
Health Sciences-Athletic Training	BS
Health Sciences - Generalist	BS
Health Services Administration	BS, MS
Legal Studies	BA, BS
Medical Laboratory Sciences	BS
Molecular Biology and Microbiology	BS, MS
Nursing	BSN, MSN

Public Administration
Physical Therapy
Radiologic Sciences
Social Work

BA, BS, MPA
MS
BS
BSW, MSW

Departments and Programs

Department of Communicative Disorders

Chair: R. J. Lieberman; HPA2 102; 407-823-4798

Academic Advisor: Jamie Schwartz

Clinic Director: C. Harvey; Research Pavilion Suite 155; 407-249-4770

Faculty: Brice, Dilvopoli, Drellinger, Edison, Harvey, Hawkins, Lieberman, Mulcahy, Mullin, Nye, Parsons, Ratusnik, Rivers, Rosa-Lugo, Ruddy, Ryalls, Schwartz, Utt, Vanryckeghem, Whiteside

The discipline of communication sciences and disorders involves the prevention, evaluation, management, and study of human communication and its disorders. The undergraduate program in the Department of Communicative Disorders is pre-professional in nature and reflects the scientific foundations of the discipline. The three primary goals of the undergraduate program are to provide students with the necessary preparation 1) to pursue graduate study in speech-language pathology, audiology, or related fields such as special education, social work, and health services administration; 2) to seek careers in health and human services; and 3) to obtain licensure and employment as a speech-language pathology or audiology assistant.

The graduate program prepares speech-language pathologists for work with children and adults experiencing a variety of communication disorders in schools, hospitals, rehabilitation centers, community speech, language and hearing centers, and physician's offices. The graduate program has been accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association since 1986. Students should plan their major or minor in consultation with a departmental advisor to meet their individual interests and career objectives.

In addition to course work in communicative disorders, the Department offers a four-course sequence in American Sign Language open to the entire university community: SPA 4612, SPA 4613, SPA 4614, and SPA 4615.

Degrees: Communicative Disorders (BA, BS, MA)
Tracks: None
Minors: Communicative Disorders
Certificates: American Sign Language
Language Development and Disorders

Department of Criminal Justice and Legal Studies

Chair: B.J. McCarthy; HPA 311; 407-823-2603

Faculty: Applegate, Becker, Bohm, Cherry, Cook, Eastep, Fabianic, Flagg, Ford, Griset, Holmes, Kirby, Lanier, Lucken, Mahan, B.J. McCarthy, B.R. McCarthy, Milon, Myers, Paoline, Pyle, Randall, Remis, Reynolds, Sanborn, Slaughter, Surette, Watkins, Wolf

The Department of Criminal Justice and Legal Studies includes two undergraduate degree programs: Legal Studies and Criminal Justice.

Criminal Justice Program

Criminal Justice is a problem based field of study which focuses on the nature of crime and crime control agencies in a democratic society. The curriculum reflects the dynamic nature of the field and prepares students for challenging careers in public service.

Legal Studies Program

The Legal Studies Program provides students with a broad understanding of basic principles of law and the role and function of the legal system. The legal studies program, in addition to preparing students for law-related careers, provides a foundation for law school or other graduate education. All of the full time Legal Studies faculty are attorneys who are graduates of ABA approved law schools and are available for law school advising. The Department also supports Phi Alpha Delta, the professional law school fraternity. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Legal Studies.

Degrees: Criminal Justice (BA, BS, MS), Legal Studies (BA, BS)
Tracks: None
Minors: Criminal Justice, Legal Studies
Certificates: Crime Analysis and Crime Mapping, Criminal Profiling, Security Management

College of Health and Public Affairs Department of Health Professions

Acting Chair: Diane M. Jacobs; HPA2 210; 407-823-2359

Faculty: Acierno, Bertetta, Cassidy, Douglass, Edwards, Falen, Fottler, Gosnell, Hamby, Harp, Holder, Hudson, Liberman, Ludy, Lytle, Meli, Mendenhall, Oetjen, Parry, Rotarius, Trujillo, Unruh, Welker, 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 generalist degree for the undecided pre-professional major and for graduates of diploma programs seeking a baccalaureate degree for professional advancement.

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 admission and the Athletic Training program requires a minimum overall and GPA of 3.0. 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.

The primary goal of the program in Health Services Administration is to prepare managers to direct a variety of health care organizations such as hospitals, HMO's, clinics and any other organization involved in the delivery or management of health care services. The undergraduate curriculum is consistent with the curricular requirements of the Association of University Programs of Health Administration, stressing administration, policy and planning skills. A diverse health care community offers students a variety of internship experiences as well as providing placement opportunities upon graduation. Faculty are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment and integrated delivery mechanisms.

Program in Cardiopulmonary Sciences

Director: L.T. Worrell; HPA2 210; 407-823-2214

The major in Cardiopulmonary Sciences (which includes the Respiratory Care Program) leads to the Bachelor of Science Degree. In the professional curriculum, students study advanced courses in respiratory therapy, pharmacology, life support systems, disease assessment, clinical practice, diagnostics, and patient management. Upon completion of the undergraduate program, the baccalaureate individual will possess basic and advanced level skills and should be prepared to assume future leadership roles within the profession. Graduates will be prepared to become Registered Respiratory Therapists through licensure by the State of Florida.

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association. This is a limited access program and requires a separate application to the program by February 1 of the year in which admission is sought.

Degrees: Cardiopulmonary Sciences (BS)
Tracks: None
Minors: None

Program in Health Information Management

Director: Tom Falen; HPA 2 210; 407-823-2369

Health Information Managers are professional members of the modern health care team responsible for: 1) the acquisition and supervision of complete medical records on each patient, 2) the design and management of health information systems which collect, process, store, retrieve, and release health information and statistics, 3) assistance to administration, other health professionals, and medical staff

College of Health and Public Affairs

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 of Allied Health Education Programs (CAAHEP) in collaboration with the Council on Accreditation of the American Health Information Management Association. This is a limited access program and requires a separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management program are eligible to take the AHIMA Registered Health Information Administration Certification exam. By successfully passing the exam, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

Degrees: Health Information Management (BS)
Tracks: None
Minors: Health Information Management

Program in Health Sciences-Athletic Training

Director: D. Cassidy; HPA2 124; 407-823-3463

The Program in athletic training at the University of Central Florida is a track in the Department of Health Professions in the College of Health and Public Affairs. 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 will emphasize skills and competencies necessary for successful clinical practice in a variety of settings in which athletic trainers are presently employed. A significant and important aspect of the educational process will be clinical experiences that will 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, sports medicine clinics, and professional athletic organizations. The unique aspect of the athletic training curriculum is that upon successful completion of the course of study, it will provide the graduate with a bachelor of science degree in Health Sciences and the eligibility to take the National Athletic Trainer's Association Board of Certification (NATABOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (A.T.C.). The Athletic Training program is accredited by the Joint Review Committee on Education Programs in Athletic Training (JRC-AT) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

This is a competitive program that requires a separate application to 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-Generalist Track

Director: T. Falen; HPA2 210; 407-823-2369

This Program offers a baccalaureate degree in Health Sciences (Generalist Track). The BSHS Program provides an opportunity for credentialed health care professionals to expand the scope of their education through the completion of courses both within and outside of their discipline. The Program also enable students, without a health background who are considering a health services career, to complete courses in several disciplines in order to make informed career decisions. BSHS students are exposed to courses from the Athletic Training, Health Information Management, and Health Services Administration Programs.

Degrees: Health Sciences (BS)
Tracks: Generalist
Minors: Health Sciences

Program in Health Services Administration

Director: T. Falen; HPA2 124; 407-823-2369

The Program 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. People within the health care industry with associate of science degrees in areas such as nursing, respiratory therapy, radiologic technologies, medical laboratory technology, dental hygiene, and others may find this program providing a migration path from the clinical side of the health care industry to the leadership side. Students without a background

in the health care industry can build a solid understanding of the complexity of managing health services organizations.

Degrees: Health Services Administration (BS, MS)
Tracks: None
Minors: Health Services Administration, Health Sciences

Program in Radiologic Sciences

Director: T. J. Edwards III; HPA2 210; 407-823-2747

The University of Central Florida offers the only public accredited Bachelor of Science in Radiologic Sciences degree program in Florida. The Radiologic Sciences Program offers students the opportunity to specialize in Radiography. 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 their profession.

The primary role of Radiographers is to perform medical imaging procedures for the diagnosis of disease and injury. The Radiographer enjoys an interesting and challenging variety of examinations/ procedures which may include conventional radiography, fluoroscopy, mammography, vascular imaging, computed tomography and magnetic resonance imaging. Employment opportunities are available in hospitals, imaging centers, and private physician offices. Career advancement opportunities include positions in advanced imaging modalities, administration, education, and quality management.

The Radiologic Sciences Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the Radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

The program works in conjunction with Arnold Palmer Hospital, Central Florida Regional Hospital, Drew Medical, Health Central, HealthSouth Diagnostic Center, Jewett Orthopedic Clinic, Orlando Regional Medical Center, Orlando Regional Lucerne Hospital, Premier Advanced Imaging, Regional MRI, South Lake Hospital, South Seminole Community Hospital and Winter Park Memorial Hospital. This is a limited access program and requires a separate application to the program by March 1st of the year in which admission is sought.

Degrees: Radiologic Sciences (BS)
Tracks: None
Minors: None

Department of Molecular Biology and Microbiology

Chair: Pappachan E. Kolattukudy; HPA 2 335; 407-823-1206

Faculty: Blaney, Chai, D. Chakrabarti, R. Chakrabarti, Charba, Daniell, Fernandez-Valle, Gennaro, Hitchcock, Jacobs, Khaled, Logiudice, Naser, Rzigalinski, Sweeney, Tatulian, White, Zervos

The Department of Molecular Biology and Microbiology offers curricular programs leading to a minor, a Bachelor of Science degree, and a Master of Science degree, each in Molecular Biology and Microbiology. The department also offers a Bachelor of Science degree in Medical Laboratory Sciences. The Molecular Biology and Microbiology program offers courses that fulfill admission requirements for all the four-year health professions (medical, dental, etc.) and graduate programs in molecular biology and microbiology. The department is a major partner in the interdisciplinary PhD program in Biomolecular Science.

Program in Molecular Biology and Microbiology

The Core Curriculum in the baccalaureate program, with its broad and thorough grounding 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 professions (chiropractic, medical, dental, optometric, podiatry, pharmacy, and veterinary medicine).

Degrees: Molecular Biology and Microbiology (BS, MS)
Tracks: None
Minors: Molecular Biology and Microbiology

Program in Medical Laboratory Sciences

Director: D. Hitchcock; HPA2 335; 407-823-5932

Medical technologists are involved in medical diagnosis, treatment, surveillance, management, research, and education. They use highly sophisticated equipment such as electronic cell counters, automated analyzers, computers, and microscopes in the examination of body tissues and fluids.

The curriculum is designed to give students a thorough background in the physical and biological sciences; to develop the understanding, skills, and ability essential to assume leadership roles in management and education; to develop a high level of proficiency in the clinical laboratory; and to develop an awareness for continuing education needed for professional growth.

The last two years of sequential courses constitute the upper division portion of the Program. The size of the class to be selected in the Medical Laboratory Science Program is determined by the availability of space and equipment, and available spaces in the clinical facilities.

This 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) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

Degrees: Medical Laboratory Sciences (BS)
Tracks: None
Minors: None

School of Nursing

Interim Director: Mary Lou Sole; HPA 220; 407-823-2744

Faculty: Brown, Browne-Krimsley, Bushy, Byers, Connell, Covelli, Dennis, Dörner, Dow, Gichia, Hennig, Holcomb, Kiehl, Kijek, Lafferty, Leli, Mayer, Pelliccio, Peterson, Rash, Ruland, Saenz, Sandor, F. Smith, L. Smith, Lynn Smith, Sole, Wink

The nursing curriculum leads to the Bachelor of Science in Nursing degree, the basis of professional nursing practice. The BSN graduate is prepared to provide comprehensive care in a variety of acute, community, and rehabilitative settings. 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. Students with a prior baccalaureate or higher degree from a regionally accredited college or university are eligible for the Accelerated Second Degree Bachelor of Science in Nursing option.

Registered nurses licensed in Florida are eligible for admission into the RN to BSN Program at UCF. Each applicant is reviewed individually and guided to prevent repetition of previous coursework. RNs may submit applications during any semester. Contact the School of Nursing for specifics on the RN-BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, Leesburg and Ocala campuses. The RN-BSN course work is also offered via the Internet.

The goal of the MSN program is to prepare advanced practice nurses to assume leadership positions in a variety of healthcare settings. Majors include Nurse Practitioner (Family, Adult, or Pediatric), Clinical Nurse Specialist, and Nursing Leadership and Management. Minimum hours for the degree are 43-49 hours of graduate work depending on the major. Either a thesis or Research Scholarly Project is required. Student must be a licensed Registered Nurse in Florida. All programs are limited access and require a separate application to the School of Nursing.

Degrees: Nursing (BSN) (MSN)
Tracks: RN to BSN, Generic BSN, Accelerated BSN degree, RN to MSN, MSN
Minors: None

Department of Public Administration

Chair: Montgomery Van Wart; HPA2 238; 407-823-2604

Faculty: Berman, Colby, Feldheim, Jurie, Korosec, Lawther, Liou, Rogers, Wang

The Public Administration course of study is designed to provide students with a broad understanding of the roles and functions of administrative agencies in the American system of government as well as prepare them for professional careers in public service at the federal, state, regional, or local level. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Public Administration. The baccalaureate program in Public Administration is offered on the Orlando and branch campuses.

Degrees: Public Administration (BA, BS, MPA)
Tracks: None
Minors: Public Administration, Urban and Regional Planning
Certificates: Non-Profit Management
Graduate Certificates: Public Administration, Non-Profit Management, Urban and Regional Planning

School of Social Work

Director: Paul Maiden; HPA 204; 407-823-2114

Undergraduate Program Coordinator: Robin Kohn

Faculty: Abel, Davis, Dziegielewski, Gray, Green, Jacinto, Kirven, Kohn, Leon, Maiden, Massey, Sauer, Turnage, VanHook

The School of Social Work offers a professional degree program that is nationally accredited by the Council on Social Work Education. Its primary focus is the preparation of students for entry-level professional social work practice within diverse human service organizations such as hospitals, schools, correctional settings, public welfare departments, child placement organizations, community centers, and counseling agencies. The Social Work program is a limited access program that requires separate application to the School of Social Work.

The School of Social Work also offers the Certificates of Aging Studies (open to all majors), Children's Services (open to SW majors only) and Addictions (open to SW majors only). The Aging Studies Certificate is an interdisciplinary program that helps prepare the students to meet the needs of the elderly citizens of Central Florida. The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing or sociology. Other students, such as those majoring in business, physical education, or art education may also find the program valuable. The Certificate in Children's Services prepares social work students to respond to the special needs of children and families. The course work includes SOW 3342, Practice II; SOW 4654, Children's Services; SOW 5655, Child Abuse: Treatment and Prevention; and SOW 4510, Field Education (in a child welfare agency). This certificate is of special interest to students planning to work the field of child welfare or related areas. The Addictions Certificate prepares students to work in the field of adult and adolescent substance abuse. The course work includes SOW 3352, Practice II; SOW 4341 Micro-Level Roles Interventions; SOW 4706 Interventions with Substance Abuse and either SOW 4705 Prevention Treatment of Adolescent Substance or CCJ 4651 Drugs and Crime.

If currently majoring in an area of certificate coursework, the student should work with their department to coordinate field work. For social work majors, the School of Social Work will plan field work to complete this program.

Degrees: Social Work (BSW, MSW)
Tracks: None
Minors: Aging Studies, American Humanics
Certificates: Addictions, Aging Studies, Children's Services

ROSEN SCHOOL OF HOSPITALITY MANAGEMENT



Dean: Abraham Pizam; CL1 302; 407-823-2188
Associate Dean: Stephen LeBruto; CL1 302; 407-823-5064
Faculty: Ashley, Breiter, Chen, Croes, Dickson, Fisher, Krebs, Milman, Muller, Ricci, Rompf, Tesone, Upchurch

The hospitality industry currently 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 School of Hospitality Management is ideally situated to prepare students for managerial careers in the hospitality industry. Whether the student is interested in entering lodging, food service, travel and tourism, financial management and technology, theme parks, vacation ownership resorts, or conventions and destination services management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 42 million tourists each year, has over 400 hotels with 112,000 rooms, 4,000 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 School 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.

The School 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 provides 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 School of Hospitality Management.

Distinctive Benefits

- Access to the many hospitality organizations that serve one of the premier tourist destinations in the world.
- Extensive ties with the top leadership of the Orlando area hospitality industry.
- A large number of scholarships made available through the generous support of the industry.
- A faculty committed to continuously improving their knowledge of the hospitality industry as well as their ability to teach that knowledge to their students.
- A required work experience that provides students with practical experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with experience in food preparation.
- American Resort Development Association (ARDA) Professorship of Vacation Ownership.
- Central Florida Hotel and Lodging Association (CFHLA) Professorship of Convention and Conference Management.
- Hospitality Financial and Technology Professionals (HFTP) Professorship of Hospitality Financial Management and Technology.

Degrees: Hospitality Management (BS)
 Restaurant and Foodservice Management (BS)

Minor: Hospitality Management

INDEX OF DEGREE PROGRAMS

Accounting
Actuarial Science
Advertising/Public Relations
Aerospace Engineering
Anthropology
Art
Art - Animation Track
Art - History Track
Art - Studio Track
Art Education
Biology
Biology - Preprofessional Concentration
Cardiopulmonary Sciences
Chemistry
Civil Engineering
Civil Engineering -
 Construction Engineering Concentration
Communicative Disorders
Computer Engineering
Computer Engineering -
 Software Engineering Concentration
Computer Science
Criminal Justice
Digital Media
Early Childhood Education
Economics (B.A. & B.S.B.A.)
Economics - Accelerated
 Undergraduate-Graduate Program
Electrical Engineering
Electrical Engineering -
 Microelectronics Concentration
Electrical Engineering -
 Wireless Communication Concentration
Electrical Engineering Technology -
 Computer Systems Concentration
Electrical Engineering Technology -
 Electrical Systems Concentration
Electrical Engineering - A.S. to B.S.E.E.T. Track
Elementary Education
Engineering Technology -
 Design Concentration
Engineering Technology -
 Operations Concentration
Engineering Technology -
 Space Concentration
English - Creative Writing
English - Literature
English - Technical Writing
English Language Arts Education
Environmental Engineering
Exceptional Student Education
Film - B.F.A. Track
Film - Cinema Studies Track
Film - World Cinemas Track
Finance
Foreign Language Combination
Foreign Language Education - French
Foreign Language Education - Spanish
Forensic Science - Analysis Track
Forensic Science - Biochemistry Track
French
General Business
General Business - A.S. to B.S. Track
Health Information Management
Health Sciences - Athletic Training Track
Health Sciences - Generalist Track
Health Services Administration
History
History - Accelerated
 Undergraduate-Graduate Program
Hospitality Management
Hospitality Management A.S. to B.S. Track
Humanities
Humanities - Religious Studies Track
Industrial Engineering
Informational Systems Technology - A.S. to B.S.
 Track
Information Systems Technology
Information Technology
Interpersonal Communication
Journalism
Legal Studies
Liberal Studies
Liberal Studies -
 Computer Information Technology Track
Liberal Studies - Environmental Studies Track
Liberal Studies - Liberal Arts Track
Liberal Studies - Women's Studies Track
Liberal Studies -
 Accelerated Undergraduate-Graduate Program
Management
Management Information Systems
Marketing
Mathematics - Applied Track
Mathematics - Computational Track
Mathematics - Engineering/Physics Track
Mathematics - Pure Track
Mathematics Education
Mechanical Engineering
Medical Laboratory Sciences
Molecular Biology and Microbiology
Music
Music Education
Music Performance
Nursing
Nursing - R.N. to B.S.N. Track
Nursing - R.N. to M.S.N. Track
Nursing Accelerated Second Degree B.S.N. Option
Nursing - A.S. to B.S. Track
Organizational Communication
Philosophy
Photography A.S. to B.S. Track
Physical Education
Physics
Political Science
Political Science - International Studies Track
Political Science - Prelaw Track
Psychology (B.A. & B.S.)
Public Administration
Radio - Television
Radiologic Sciences
Radiologic Sciences - A.S. to B.S. Track
Restaurant and Food Service Management
Science Education - Biology
Science Education - Chemistry
Science Education - Physics
Social Sciences
Social Science Education
Social Work
Sociology
Spanish
Sports and Fitness - A.S. to B.S. Track
Statistics
Theatre (B.A. & B.F.A.)
Theatre - Musical Theatre Track
Vocational Education and Industry Training

UCF Degree Programs

ACCOUNTING (B.S.B.A.)

College of Business Administration, BA 240,
407-823-2184
<http://www.bus.ucf.edu>

Admission Requirements

- Completion of the General Education program at UCF, a Florida Public Community College, or a Florida Public University
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (min 36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100C Computer Fund. for Bus	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.

3. Common Body of Knowledge (30 hrs)

First Semester in the College of Business Administration:		
GEB 3031	Cornerstone	6 hrs
GEB 3356	Intro to International Business	3 hrs
First or subsequent semesters depending on major:		
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management/Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
BUL 3130	Legal and Ethical Environment of Business	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs

4. Special College and/or Departmental Requirements

- 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 are allowed a maximum of three course repetitions during their program of study leading to the bachelors degree, including repetitions of courses from which they have withdrawn. This requirement applies to upper division accounting, tax, and business law courses only.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- All students must have credit for a course in each of the following areas:
 - English communication arts including written composition
 - Oral expression
 - Behavioral science such as psychology, anthropology, and sociology

- Humanities
- Political environment of business and society such as political science, public administration, and ethics

- Students must have at least a 2.0 GPA in the College of Business and in the accounting major.
- A grade of "C-" (1.75) or lower is not satisfactory for continuing into other accounting courses and will not count toward graduation for an accounting major.

5. Foundation (Required) (12 hrs)

ACG 3131	Financial Accounting Concepts and Analysis	3 hrs
ACG 4401	Accounting Information Systems	3 hrs
ACG 3361	Intermediate Managerial Accounting	3 hrs
TAX 4001	Taxation of Business Entities and Transactions	3 hrs

6. Area Specialization/Concentration Requirements (9 hrs)

Select one set from the following area specialization options:

A. Public Accounting		
ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
– ACG 4651	Auditing	3 hrs
B. Managerial Accounting		
ACG 4671	Internal Auditing	3 hrs
ACG 5346	Intermediate Managerial Accounting	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs
C. Accounting Information Systems		
ACG 4671	Internal Auditing	3 hrs
ACG 5405	Advanced Accounting Information Systems	3 hrs
ISM 3005	MIS Techniques	3 hrs
D. Governmental and Not-For-Profit Accounting		
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
ACG 4671	Internal Auditing	3 hrs
ACG 5517	Financial Accounting and Auditing for Governmental and Nonprofit Organization	3 hrs

E. General Accounting

Select one additional financial reporting course:		
ACG 3141	Intermediate Financial Accounting <i>or</i>	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs

Select one auditing course:		
ACG 4651	Auditing	3 hrs
ACG 4671	Internal Auditing	3 hrs

Select one additional accounting course from the Restricted Electives listed below		
		3 hrs

Note: Course substitutions in any area require approval by the Director, School of Accounting. A grade of "B" or better in pre-requisite course required to take graduate level courses.

7. Restricted Electives (3 hrs)

Students may choose among the following accounting and accounting-related business courses:

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 4401	Accounting Information Systems	3 hrs
ACG 4651	Auditing	3 hrs
ACG 4671	Internal Auditing	3 hrs
ACG 4932	Approved Special Topics Courses in Accounting	3 hrs
ACG 4XXX**	Honors Thesis in Accounting	3 hrs
TAX 4001	Taxation of Business Entities	3 hrs
ACG 5346	Advanced Managerial Accounting	3 hrs
ACG 5405	Advanced Accounting Information Systems	3 hrs
ACG 5517	Governmental and Nonprofit Accounting	3 hrs
ACG 5205	Advanced Financial Accounting	3 hrs
BUL 5332	Advanced Business Law Topics	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 4453	Financial Models	3 hrs
ISM 3005	MIS Techniques	3 hrs
ISM 4212	Database Management Systems	3 hrs
TAX 5015	Advanced Taxation Topics	3 hrs

(HPA electives to be added for Governmental Specialization)
**Enrollment restricted to students accepted into the Honors in the Major Program

8. Honors in the Major (6 hrs)

Eligibility: Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credits including at least 12 graded upper-division hours at UCF; at least a 3.5 GPA within the major; and at least a 3.2 cumulative GPA including all upper-division courses regardless of institution.

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 4903	Directed Readings in Accounting or	3 hrs
*ACG 4904	Honors Seminar in Accounting	3 hrs
plus		
ACG 4970	Honors Thesis in Accounting	3 hrs

* With approval of the School of Accounting Honors in the Major Coordinator, the Directed Readings or Honors Seminar course will satisfy one of the Area Specialization course requirements toward satisfaction of the course requirements for the Accounting Major.

9. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

CPA Examination Requirements

Effective August 31, 1983, Florida Law states that to qualify to sit for the CPA exam, one must possess thirty (30) additional semester hours of credit beyond the minimum requirements for the baccalaureate degree. In addition to this overall educational requirement, the following specific criteria also apply:

- 36 hours in accounting beyond elementary, including coverage of financial accounting, auditing, cost and managerial accounting, and taxation.
- 39 hours in general business, including at least 6 hours of business law.

Because of these increased educational requirements, no experience or additional course work is needed for certification. To satisfy the necessary coursework required by the law, the School of Accounting offers the Master of Science in Accounting (MSA) and the Master of Science in Taxation (MST) degree programs. Please see the *Graduate Catalog* for program requirements. For additional information about the department, curriculum, faculty, events, and careers in accounting, students are invited to visit our department home page at: <http://www.bus.ucf.edu/acc/>.

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, Micro-economics, 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.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman

Fall	15 hrs	Spring	15 hrs
ENC 1101*	3	ENC 1105*	3
Cult-Hist I*	3	Cult-Hist II*	3
MAC 1105*	3	Art/Music/Lit	3
Psy/Soc/Ant	3	CGS 2100C*	3
Science	3	Science	3
Must complete 9 hours in a Summer term			

Sophomore

Fall	15 hrs	Spring	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
SPC 1600	3	POS 2041	3
***Elective	3**	***Elective	3
**Elective	3	ECO 3401*	3

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

** Accounting majors must have a "C" (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major

Junior

Fall	15 hrs	Spring	15 hrs
GEB 3031	6	ECO 3411	3
**BUL 3130	3	GEB 3356	3
**ISM 3011	3	MAN 3025	3
**ACG 3130	3	**ACG 4401	3
		**ACG 3361	3

** Accounting majors must have a "C" (2.0) or better in each class to include law and tax and a 2.0 GPA in major.

Senior

Fall	15 hrs	Spring	15 hrs
**TAX 4001	3	MAN 4720	3
ACG Specialization	3	**ACG Specialization	3
FIN 3403	3	**Elective	3
**ACG Specialization	3	**Program Elective	3
MAR 3023	3	**Elective	3

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

UCF Degree Programs

ACTUARIAL SCIENCE (B.S.)

College of Arts and Sciences

Department of Statistics, CC II 212, 407-823-5562

<http://www.cas.ucf.edu/statistics>

E-mail: statistics@mail.ucf.edu

L. Guo, 407-823-5532

Admission Requirements

Students must apply for admission to the Actuarial Science Concentration by March 15 of the Spring semester two years prior to expected graduation. Transfer students expecting to graduate in less than two years should apply immediately upon admission to UCF.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department
- Students must earn at least a "C" (2.0) in each STA course
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major
- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with a departmental advisor
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (39 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 7 hrs
 - Select MAC 2311 Calculus I
 - Select STA 2023 Statistical Methods I
- D. Social Foundations 6 hrs
 - Select ECO 2013 Macroeconomics
- E. Science Foundations 8 hrs
 - Select BSC 2010C General Biology
 - Select PHY 2053C College Physics *or*
 - CHM 2045C Chemistry Fundamentals

2. Common Program Prerequisites (14 hrs)

- COP 3502C* Computer Science I 3 hrs
- ECO 2013 Macroeconomics GEP
- ECO 2023 Microeconomics 3 hrs
- MAC 2311 Calculus I GEP
- MAC 2312 Calculus II 4 hrs
- MAC 2313 Calculus III 4 hrs

*See Transfer Notes for possible substitutes

3. Core requirements (47 hrs)

- ACG 2021 Princ Financial Accounting 3 hrs
- STA 2023 Statistical Methods I GEP
- STA 4321 Statistical Theory I 3 hrs
- STA 4322 Statistical Theory II 3 hrs
- STA 4641 Risk Theory and Decision 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 4 hrs
- BSC 2010C General Biology GEP
- Select one course 4 hrs
 - MAS 3105 Linear and Matrix Algebra
 - MAS 3106 Linear Algebra
- Select two courses and associated labs (including 4 hrs GEP) 4 hrs
 - BSC 2011C Biological Diversity (PR: BSC 2010C)
 - CHM 2045C Chemistry Fundamentals
 - CHM 2046 & 2046L Chemistry Fundamentals II & Lab
 - PHY 2053C College Physics I
 - PHY 2054C College Physics II
- Select three from among the following: (9 hrs)
 - STA 4852 Applied Time Series
 - STA 4102 Computer Process of Stat Data
 - STA 4165 Statistical Methods II with Computer
 - STA 4164 Statistical Methods III

- STA 4676 Life Testing Analysis
- STA 4675 Demographic Statistics
- STA 4504 Categorical Data Analysis
- STA 4187 Theory of Graduation
- STA 4939 Problems in Actuarial Science
- STA 5139 Credibility Theory and Loss Distributions
- STA 5646 Casualty Insurance
- STA 6132 Pension Actuarial Science
- STA 6931 Topics in Actuarial Science

4. Restricted Upper Division Electives (15 hrs)

- Select from upper division or graduate statistics, actuarial science, or mathematics courses
- Nine of the hours must be 4000 level or above
- Selected courses in business may be used but must first be approved by the Statistics Department
- MAC 2233, 2253, 2254; all MAE courses; and MHF 4404 may not be used

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each STA course.
- Computer competency met by COP 3502C.

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 hours

Related Programs: Mathematics, Mathematics Education, Statistics

Related Minors: Statistics, Mathematics

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:

- 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.

ADVERTISING/PUBLIC RELATIONS (B.A.)

College of Arts and Sciences

Nicholson School of Communication, COM 250

407-823-2829

<http://www.cas.ucf.edu/communication>

E-mail: ad-pr@ucf.edu

Bob Davis

Limited Access program.

Admission Requirements

- Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission.

Deadlines are:

- October 1, 2003 for Spring 2004
- Feb 2, 2004 for Summer 2004
- July 1, 2004 for Fall 2004

- 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. The GPA cut-off varies somewhat with the quality of applicants, but for the previous acceptance periods, the minimum GPA did not drop below 3.3.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op credit can be used in the major
- 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
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation
- 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 & 1102 Composition 6 hrs
 - Select SPC 1600 Fund Oral Communication 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - Select MGF 1106 Finite Math (may substitute a higher level math) 3 hrs
 - Select CGS 1060C Intro to Computer Sci *or* STA 2014C Principles of Statistics *or* STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (GEP)

- SPC 1600 Fund Oral Communication GEP

3. Core requirements (30 hrs)

- ADV 3000 Principles of Advertising 3 hrs
 - ADV 4101 Advertising Copywriting 3 hrs
 - ADV 4103 Radio-TV Advertising 3 hrs
 - COM 3110 Business and Prof Communication 3 hrs
 - MMC 4254 Ad/PR Campaigns 3 hrs
 - MMC 3420 Mass Media Research Methods 3 hrs
 - MMC 4200 Mass Communication Law 3 hrs
 - PUR 3100 Writing for Public Relations 3 hrs
 - PUR 4000 Public Relations 3 hrs
 - PUR 4801 Public Relations Case Studies 3 hrs
- Students who complete a 3-hour internship may take either
- PUR 4801 *or* ADV 4103.
 - 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 program admission test

5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
 Graduation: One year or equivalent proficiency exam.

6. Electives (variable)

Select primarily from upper level courses, with School advisor's approval. Should be taken outside of the School of Communication.

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 hours

Related Programs: Marketing
Related Minors: Business, Marketing, Psychology

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

**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>

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, **Orientation**, found elsewhere in this catalog.

Degree Requirements

- Each engineering student is assigned a qualified aerospace engineering academic advisor in the department of his/her major. Each student must 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 (38 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs **A.** through **E.** below to minimize excess hours. Students transferring to UCF from the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

- A. Communication Foundations 9 hrs
 - 1. Take ENC 1101
 - 2. Take ENC 1102
 - 3. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 7 hrs
 - 1. Take MAC 2281, Calculus for Scientists and Engineers I(4hrs)
 - Note:** College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
 - 2. Take STA 3032 (3 hrs).
 - Note:** Calculus II is the prerequisite for this course.
- D. Social Foundations 6 hrs
 - 1. Take ECO 2013 *or* ECO 2023.
 - 2. Take ANT 2000, PSY 2012, *or* SYG 2000.
- E. Science Foundations 7 hrs
 - 1. Take PHY 2048/48L.
 - 2. Prefer GEO 1200 *or* GEO 2370.

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. All engineering students must remain in the Calculus sequence which they begin. Students who begin with MAC 2281, Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311,

UCF Degree Programs

Calculus with Analytic Geometry I, must continue with MAC 2312 and MAC 2313. MAC 2281-MAC 2282-MAC 2283 is the preferred sequence for engineering students. The courses in these two Calculus sequences are not individually interchangeable. **Note:** MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

3. Courses Required for the Major (60 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 and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1111C	Engineering Computer Graphics	2 hrs
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
EAS 3706	Structure & Properties of Aerospace Materials	3 hrs
EGN 3373	Principles of Electrical Engnrng	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EAS 3101	Aerodynamics I	3 hrs
EAS 3800C	Aerospace Engineering Measurements	3 hrs
EAS 3810C	Design of Aerospace Experiments	2 hrs
EAS 4105	Flight Mechanics	3 hrs
EAS 4134	High-Speed Aerodynamics	3 hrs
EAS 4200	Flight Structures	3 hrs
EAS 3530	Space Systems Concepts <i>or</i>	
EAS 4400	Spacecraft Attitude Dynamics <i>or</i>	
EAS 4505	Orbital Mechanics	3 hrs
EAS 4300	Aerothermodynamics-Propulsion Sys	3 hrs
EML 3034	Modeling Methods in MMAE	3 hrs
EML 3312C	Feedback Control	3 hrs
EML 3601	Solid Mechanics	3 hrs
EML 3701	Fluid Mechanics I	3 hrs
EAS 3404C	Discrete Control Aerospace Vehicles	3 hrs
EML 4535C	Introduction to CAD/CAM	3 hrs

4. Approved Technical Electives (5 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 terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- EGN 4412C Interdisciplinary Design I *or*
- EAS 4700C Aerospace Design I 3 hrs
- EGN 4413C Interdisciplinary Design II *or*
- EAS 4710C Aerospace Design II 3 hrs
- CECS encourages all engineering students to take the Engineering Intern Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.

- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

Related Minors: Space Studies.

Transfer Notes:

- 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 with his/her petition for this evaluation.
- EGN 1006C and EGN 1007C are required courses for incoming freshman students only. The two credit hours for these courses may be substituted by an approved Aerospace Engineering technical elective for transfer students.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Aerospace Engineering - 128 semester hours⁵ required

FIRST YEAR

Fall (14 cred hrs, 18 cont hrs) ^{1,2}		Spring (15 cred hrs, 19 cont hrs) ^{1,2}	
*ENC 1101 English Comp I	3	EGN 1007C : Eng Conc/Meth	1
*CHS 1440 Chem for Eng <i>or</i>	4	*ENC 1102 English Comp II	3
CHM 2045C w/lab		*MAC 2282 Calc Sci&Eng II <i>or</i>	4
*MAC 2281 Calc Sci & Eng I <i>or</i>	4	MAC 2312 Calculus II	
MAC 2311 Calculus I		*PHY 2048 Phys Eng/Sci I w/lab	4
EGN 1006C Intro to Eng Prof	1	*SPC 1016 Tech Presentations	3
EGN 1111C Eng Comp Graphics	2		

Summer (10 credit hrs, 10 contact hrs)^{1,2,4}

*MAC 2283 Calc Sci&Eng III <i>or</i>	4
MAC 2313 Calculus III	
EAS 3706 Struct & Prop of Aerospace Mat'l	3
(PR: CHS 1440 & MAC 2282)	
*Social Foundations	3

SECOND YEAR

Fall (13 cred hrs, 17 cont hrs) ¹		Spring (12 cred hrs, 12 cont hrs)	
*Humanities/History ^a	3	EGN 3373 Prin Elec Eng	3
*MAP 2302 Diff Equations	3	(PR: PHY 2049, CR: MAP 2302)	
*PHY 2049 Phys Eng II w/lab	4	EGN 3321 Engr Anal-Dynmcs	3
EGN 3310 Engr Anal - Statics	3	(PR: EGN 3310, CR: MAC 2283)	
(PR: PHY 2048, CR: MAC 2282)		EGN 3343 Thermodynamics	3
		EML 3601 Solid Mechanics	3
		(PR: EGN 3310, CR: MAP 2302)	

Summer (9 cred hrs, 9 cont hrs)^{1,4}

*ECO 2013 <i>or</i> 2023 Macro <i>or</i> Micro	3
*Humanities/History ^b	3
STA 3032 Prob & Stats/Engrs	3

THIRD YEAR

Fall (15 cred hrs, 19 cont hrs)		Spring (14 cred hrs, 18 cont hrs) ¹	
EML 3034 Model Meth's MMAE	3	EAS 3101 Fund of Aerodyn	3
(PR: EGN 1111C, MAP 2302, High Lev Prog: CR: EGN 3321)		(PR: EML 3701)	
EML 3701 Fluid Mechanics I	3	EAS 3810C Dsgn Aerosp Expr	2
(PR: MAP 2302, EGN 3343)		(PR: EAS 3800C, EML 3701)	
EAS 3800C Aerosp Eng Msr	3	EAS 3404C Dis Con Aero Veh	3
(PR: EML 3601, CR: EGN 3343)		(PR: EML 3312C)	
EML 3312C Feedback Control	3	EAS 4505 Orbital Mechncs <i>or</i>	3
(PR: EGN 3321, 3373, MAP 2302)		(PR: EGN 3321, MAP 2302)	
EAS 4200 Flight Structures	3	EAS 4400 Spccraft Att Dyn <i>or</i>	
(PR: EML 3601, EML 3034)		(PR: EML 3312C)(Fall only)	
		EAS 3530 Space Sys Concepts	
		(PR: EAS 3010, PHY 2049, MAP	

	2302))	
	*Earth Science	3
FOURTH YEAR		
Fall (12 cred hrs, 18 cont hrs)		
EML 4535C CAD/CAM	3	Spring (14 cred hrs, 18 cont hrs) ^{1,3}
(PR: EGN 3343, EML 3034, EML 3601; CR: EAS 4200 or EML 3500)		EAS 4300 Aerotherm Prop Sys
EAS 4105 Flight Mechanics	3	(PR: EAS 4134 or EML 4703)
(PR: EAS 3101, EML 3312C)		EAS 4710C Aerosp Design II
EAS 4134 High-Spd Aerodyn	3	(PR: EAS 4700C) or
(PR: EAS 3101)		EGN 4413C Interdisciplinary Design II (PR: EGN 4412C)
EAS 4700C Aerosp Design I or	3	Technical Electives
(PR: EAS 3810C)		*Humanities/History2
EGN 4412C Interdisciplinary Design I		
(PR: EAS 3810C CR:EML 3312C, EAS 3404C)		

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. All students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable.
3. Students should 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 their faculty advisor frequently to ensure they are making satisfactory progress toward their degree.
4. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
5. Aerospace engineering students must earn at least 32 hours in residence at UCF.

IMPORTANT NOTICE

- **Bolded** course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.
- A number of the **bolded** courses are given only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.
- Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- Please meet with your advisor if you have any questions regarding your schedule. Do not drop any course before discussing this action with your advisor - there may be alternative actions which will benefit you.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034 ("C" or FORTRAN recommended).
- If you are not ready to begin the calculus sequence upon entry to the Aerospace Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

Integrated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated BS/MS program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

ANIMATION TRACK in ART

See Art - Animation Track

ANTHROPOLOGY (B.A.)

College of Arts and Sciences

Department of Sociology and Anthropology, PH 403, 407-823-2227,

http://www.cas.ucf.edu/soc_anthro/firstpage.html

E-mail: anthropology@ucf.edu

J. Corzine, 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 Sociology and 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
- 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
 - Select MAC 1105 College Algebra (or higher) 3 hrs
 - Select STA 2023 Statistical Methods I 3 hrs
- D. Social Foundations
 - Select one: ECO 2013, ECO 2023, POS 2041 3 hrs
 - Select ANT 2000 General Anthropology 3 hrs
- E. Science Foundations
 - Select one: PSC 1121, PHY 2053C, CHM 1020 3 hrs
 - Select ANT 2511 The Human Species 3 hrs

2. Common Program Prerequisites

(0 hrs)

- ANT 2000* General Anthropology GEP
 - ANT 2511* The Human Species GEP
- *See Transfer Notes for possible substitutes

3. Core Requirements: Lower Level

(6 hrs)

- ANT 2100 Arch & the Rise of Human Cult 3 hrs
- ANT 2410 Cultural Anthropology 3 hrs

4. Core Requirements: Upper Level

(12 hrs)

All students are required to take the following upper level courses in the four subdisciplines of Anthropology:

- ANT 3145 Archaeology of Complex Societies 3 hrs
- ANT 3640 Language and Culture 3 hrs
- ANT 4034 History of Anthropological Thought 3 hrs
- ANT 4586 Human Origins 3 hrs

5. Core Requirements: Area Study

(3 hrs)

All students are required to take one of the following courses:

- ANT 3163 Mesoamerican Archaeology
- ANT 3164 The Inca
- ANT 3168 Maya Archaeology (or ANG 6168)
- ANT 3311 Indians of the SE US
- ANT XXXX Ethnology of North American Indians
- ANT 3313 Indians of N American High Plains
- ANT 3314 Indians of the Northeast Woodlands
- ANT 3318 Indians of the Northwest Coast
- ANT 3319 The Anthropology of Diaspora
- ANT 3332 Peoples and Culture of Latin America
- ANT 3340 Caribbean Cultures
- ANT 3363 Anthropology of Japan
- ANT 4308 Gender Issues in Latin America
- ANG 6324 Contemporary Maya

6. Restricted Electives

(18 hrs)

Six other Anthropology courses must be taken to complete the major.

UCF Degree Programs

These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).

ANT 3115	Archaeological Method and Theory
ANT 3142	Old World Prehistory
ANT 3184	Archaeology of Complex Societies
ANT 3550	Primatology
ANT 3158	Florida Archaeology
ANT 4153	North American Archaeology
ANT 4180C	Seminar in Laboratory Analysis
ANT 4824	Advanced Archaeological Field Work
ANG 5166	Problems of Maya Archaeology
ANG 5167	Maya Hieroglyphs
ANG 5228	Maya Iconography
ANT 3541	Biobehavioral Anthropology
ANT 4521C	Forensic Anthropology
ANT 4462	Medical Anthropology
ANT 4525C	Human Osteology
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 3701	Applied 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.

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Two semesters or equivalent proficiency exam.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

10. University Minimum Exit Requirements

- A "C" (2.0) GPA in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Sociology, Graduate Certificate in Maya Studies

Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Judaic Studies, Latin American and Iberian Studies, Russian Area Studies, Sociology, and 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:

- 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.

ART (B.F.A.)

College of Arts and Sciences

Art Department VAB 117, 407-823-2676,

<http://reach.ucf.edu/~art>

E-mail: art@ucf.edu

J. Chavda, 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 and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

Admission Requirements

- All junior level students in this program must satisfactorily complete the mandatory portfolio review before enrolling in upper division courses. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department as an Art History/Digital Studio Application track
- Students may apply for the BFA Program in the first semester or their Junior year. If they have a 3.0 overall average in the Art Department and a 3.5 in their specialization they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.
- Animation B.F.A. majors should consult with an Animation advisor for admission requirements

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+" (2.25) in lower level courses do not satisfy major requirements
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor in their 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	
Take one two-semester sequence	6 hrs
Select ARH 2050 The History of Art I	3 hrs
C. Mathematical Foundations	
Select MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (27 hrs)

ART 2201C*	Design Fundamentals I	3 hrs
ART 2203C*	Design Fundamentals II	3 hrs
ART 2300C*	Drawing Fundamentals I	3 hrs
ART 2301C*	Drawing Fundamentals II	3 hrs
ART 2820	Art as Interface	3 hrs
ARH 2050	History of Art I	GEP
ARH 2051	History of Art II	3 hrs
ARH 2005	Survey of Non-Western Art	3 hrs
ART 2600C*	Intro to Computer Graphics	3 hrs
ART 2XXX-4XXX any ART prefix, studio or media course		3 hrs
*See Transfer Notes for possible substitutes		

3. Restricted Electives (42 hrs)

Specialization:	18 hrs
Select six upper division courses from one area:	
Ceramics (ART 3760C, 4783C)	
Animation (ART 3XXX, 4971, FIL 3286C, 3287C, 4288C*, 4289C*)	
Drawing (ART 3332C, 4320C)	
Drawing/Printmaking Combination (ART 3332C, 3401C, 4320C*, 4402C*)	
Drawing/Illustration Combination (ART 3332C, 3255C, 4320C*, 4256C*)	
Graphic Design (GRA 3100C, 3112C, 2140C, 4195C)	
Painting (ART 3504C, 4505C*)	
Photography (PGY 2401C, 4420C*, 4440C*)	

Sculpture (ART 2701C, ART 4710C*).
 *may be repeated for credit
 Elective in Art: 15 hrs
 Select five Art courses; two of which may be lower division
 Select from at least three of the following areas, excluding the
 area of specialization.
 Animation, Ceramics, Drawing, Fibers and Fabrics, Graphic
 Design, Illustration, Painting, Photography, Printmaking,
 Sculpture, and Special Topics Studio Courses.
 Additional Electives 9 hrs
 ARH 3XXX-4XXX Art History Courses **or**
 Any upper level Humanities **or**
 Social Science course(s)
 Animation specialization requires FIL 3410 and any 6 credits of
 upper level art courses
 (A maximum of six hours of Independent Study, Practicum, and
 Internship are permitted.)

4. Departmental Exit Requirements (3 hrs)

ART 4935 BFA Exhibit/Seminar
 ART 5811C The Professional Practice of Art
 (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 ART 2600C

5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam

6. Electives (variable)

Select primarily from upper level courses, with departmental advi-
 sor's approval. May be outside of the department

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 res-
 idency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP,
 Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the
 CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Art History, Studio Art (BA), Art Education,
 Animation, Digital Media

Related Minors: Partners in Visual Art Education

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper
 Division courses
- Courses transferred from private and out-of-state schools must
 be evaluated for equivalency credit. The student must provide all
 supporting information.

Acceptable Substitutes for common program prerequisites if taken
 prior to transferring to UCF:

- ART 2201C* and 2203C*: A student may substitute a four credit
 ART 2201C; however, both ART 2201C and 2203C are prerequi-
 sites for subsequent art course and will need to be taken for the
 major.
- ART 2300C* and 2301C*: A student may substitute a four credit
 ART 2300C; however, both ART 2300C and 2301C are prerequi-
 sites for subsequent art courses and will need to be taken for the
 major.
- ART 2600C*: A student may substitute any three hour media
 course; however, ART 2600C is a prerequisite for subsequent art
 courses and will need to be taken for the major

ART - ANIMATION TRACK (B.F.A.)

College of Arts and Sciences

Animation, VAB 210, 407-823-3110,

<http://reach.ucf.edu/~art>

E-mail: animation@ucf.edu

D. Haxton

Note: Although the department maintains a small computer lab for
 student use, Graphic Design and Animation majors must have con-
 tinual access to a lap top computer. Contact the department for the
 minimum hardware and software specifications.

Admission Requirements

- Students should complete ART 2201C and ART 2300C before
 applying to be accepted in the Animation BFA
- Students must submit a satisfactory drawing portfolio to be
 admitted to FIL 3286C.
- Students must maintain an overall minimum 3.0 GPA in the
 above courses.
- Applications must include a portfolio of work done in courses,
 such as drawings, design projects, computer graphics, animation
 work, and storyboards.
Note: Unfortunately, individual reviews are not possible due to
 the large number of applicants to this program
- Animation requires submission of a portfolio. Submission deadline for
 Fall term is February 2 and for Spring term September 15.

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 advisor
- Departmental Residency Requirement consists of at least 24
 semester hours of regularly scheduled 3000-4000 level courses
 taken within the UCF Art and Film programs
- 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
 Take one two-semester sequence 6 hrs
 Select ARH 2050 The History of Art I 3 hrs
- C. Mathematical Foundations
 Select MGF 1106 Finite Mathematics 3 hrs
 (may substitute a higher level math)
 Select CGS 1060C Intro to Computer Sci 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (21 hrs)

- ART 2201C Design Fundamentals I 3 hrs
- ART 2203C Design Fundamentals II 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ART 2301C Drawing Fundamentals II 3 hrs
- ARH 2050 History of Art I 3 hrs
- ARH 2051 History of Art II 3 hrs
- ART 2600C Intro to Computer Graphics 3 hrs
- ART 2XXX-4XXX any ART prefix, studio, or media course 3 hrs

3. Core Requirements (6 hrs)

- FIL 3410 History of Animated Films 3 hrs
- Any upper level Art or Film History course 3 hrs

4. Restricted Upper Division Courses (15 hrs)

Workshops may be repeated.

- Animation**
- FIL 3286C Introduction to Animation 3 hrs
- FIL 3287C Intermediate Animation 3 hrs
- FIL 4288C Advanced Animation 3 hrs
- FIL 4289C Animation Workshop 3 hrs
- ART 3XXX Digital Effects and Compositing 3 hrs

5. Elective in Art (12 hrs)

Select four courses; two may be lower division
 Select from at least three of the following areas:

UCF Degree Programs

Ceramics, Drawing, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

6. Departmental Exit Requirements

- ART 4971 Thesis 3 hrs
- Achieve at least a "B" GPA (3.0.0) in courses within the major
- Computer Competency met by CGS 1060C or ART 2600C

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: One year college level or equivalent proficiency exam.

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 hours

Related Programs: Art, Art Education, Art History, Film Production/Screen writing, Radio/TV

Related Minors: Art, Digital Media, Film

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools 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:

- ART 2600C: may substitute three hours of any computer course

ART - HISTORY TRACK (B.A.)

College of Arts and Sciences

Art Department, VAB 117, 407-823-2676

<http://reach.ucf.edu/~art>

E-mail: art@ucf.edu

J. Chavda, 407-823-2676

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 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
 - Take one two-semester sequence 6 hrs
 - Select ARH 2050 The History of Art I 3 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Math (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 (9 hrs)

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

3. Core Requirements (18 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 3 hrs
- ENC 3311 Expository Writing 3 hrs
- ART 2820 Art as Interface 3 hrs

4. Restricted Electives (18 hrs)

One Non-Western Art History Course: 3 hrs

- ARH 3520 African Art
- ARH 4545 Art of India
- ARH 4655 MesoAmerican Art

One of the following courses: 3 hrs

- ARH 4350 Baroque Art
- ARH 4458 Women & Art in 20th Cent America
- ARH 4892 Women in Art

Select 12 additional hours from following: 12 hrs

- ARH 3520 African Art
- ARH 3728 American Art
- ARH 3456 Art in Last 25 Years
- ARH 4458 Women and Art in 20th Century America
- ARH 4892 Women in Art
- ARH 4350 Baroque Art
- ARH 5478 Contemporary Women Artists
- ARH 4170 Greek and Roman Art
- ARH 3710 History of Photography I
- ARH 3711 History of Photography II
- ARH 3720 History of Prints
- ARH 4655 MesoAmerican Art
- ARH 3683 Southern Folk Arts
- ARH 3820 Visual Arts Administration
- ARH 5933 Sem. in African & African-American Arts

5. Departmental Exit Requirements (4 hrs)

- ARH 4912 Senior Thesis 3 hrs
- ARH 4906 Comprehensive Exam 1 hr
- Achieve at least a "C" GPA (2.0) in courses within the major
- Computer Competency met by STA 1060C, ART 2600C, or ARH 3820

6. Foreign Language Requirements (0-14 hrs)

Admission: Met by graduation requirement.

Graduation: Two years or equivalent proficiency exam.

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 hours

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

ART - STUDIO TRACK (B.A.)

College of Arts and Sciences

Art Department VAB 117, 407-823-2676

<http://reach.ucf.edu/~art/>

E-mail: art@ucf.edu

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.

Continuation Requirements

- All junior level students in this program must satisfactorily complete the mandatory portfolio review before enrolling in upper division courses. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department as an Art History/Digital Studio Application track.
- A second portfolio is required for the Graphics Design Specialization. Deadline for application is April 1st prior to beginning the Fall of the Junior year
- A second portfolio is required for the Animation Specialization. Deadlines for application are September 15 for Spring term and February 2 for the Fall term. **Note:** Unfortunately, individual reviews are not possible due to the large number of applicants to these programs

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C+" (2.25) in lower level 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 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	
Take one two-semester sequence	6 hrs
Select ARH 2050 The History of Art I	3 hrs
C. Mathematical Foundations	
Select MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	6 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites	(27 hrs)
ART 2201C Design Fundamentals I	3 hrs
ART 2203C Design Fundamentals II	3 hrs
ART 2300C Drawing Fundamentals I	3 hrs
ART 2301C Drawing Fundamentals II	3 hrs
ART 2820 Art As Interface	3 hrs
ARH 2050 History of Art I	GEP
ARH 2051 History of Art II	3 hrs
ARH 2005 Survey of Non-Western Art	3 hrs
ART 2600C* Intro to Computer Graphics	3 hrs
ART 2XXX-4XXX any ART prefix, studio or media course	3 hrs

*See Transfer Notes for possible substitutes

3. Restricted Electives	(27 hrs)
Specialization:	
Select nine upper division courses from at least three area:	
Ceramics (ART 3760C, 4783C*)	
Drawing and Printmaking (ART 3332C, 3401C, 4320C*, 4402C*)	
Painting (ART 3504C, 4505C*)	
Photography (PGY 2401C, 4420C*, 4440C*)	
Sculpture (ART 2701C, 4710C*)	
Type & Design (GRA 311C)	
Illustration (ART 3255C, 4256C*)	

Art History (ART 3XXX, 4XXX)
*may be repeated for credit

4. Departmental Exit Requirement

- Achieve at least a "C" GPA (2.0) in courses within the major
- Computer Competency met by STA 1060C or ART 2600C

5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: One year or equivalent proficiency examination.

6. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

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 hours

Related Programs: Art History, Studio Art (BFA), Art Education, Animation, Digital Media

Related Minors: Partners in Visual Art Education, Digital Media

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- ART 2600C: may substitute 3 hours of any media course

ART EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

407-823-5791

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

E-mail: tbrewer@mail.ucf.edu

Coordinator: Thomas Brewer, 407-823-3714,

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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	(9 hrs)
ENC 1101 Composition I	3 hrs
ENC 1102 Composition II	3 hrs
SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations	(9 hrs)
AMH 2010 U.S. History 1492-1877	3 hrs
AMH 2020 U.S. History 1877-Present	3 hrs
PHI 2010 Introduction to Philosophy	3 hrs
C. Mathematical Foundations	(6 hrs)
MGF 1106 Finite Mathematics	3 hrs
Select one:	3 hrs
STA 1060C Basic Statistics using MS Excel <i>or</i>	
STA 2014C Principles of Statistics	
D. Social Foundations	(6 hrs)

UCF Degree Programs

POS 2041	American National Government	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations		(6 hrs)
PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (43 hrs)

A. Communications (9 hrs)		
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities (6 hrs)		
PHI 2010	Introduction to Philosophy	GEP
ARH 2050	The History of Art I	3 hrs
C. Mathematics (9 hrs)		
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	GEP
D. Social Science/History (12 hrs)		
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science (9 hrs + lab)		
PSC 1121	Physical Science	GEP
One of the following (per GEP)		
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		
BSC 1005L	Biological Principles Laboratory <i>or</i>	
GEO 1200L	Physical Geography Laboratory <i>or</i>	
PSC 1121L	Physical Science Laboratory	1 hr
F. Education Courses (9 hrs)		
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses (GEP)		
H. Other Program Prerequisites (24 hrs)		
*ARH 2051	History of 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
*ART 2600C	Intro to Computer Graphics	3 hrs
ART 2754C	Ceramics	3 hrs
ART 2500C	Painting	3 hrs

*Prerequisites for all 3000 and 4000 core and elective ARE and ART courses.

3. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
RED 4043	Content Reading K-12	3 hrs

4. Internship I (ESE 3940) (3 hrs)

- At least 50% of all required art courses must be completed before registering for Internship I
- See additional requirements listed under College of Education, Office of Clinical Experiences

5. Core Requirements (9 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

6. Restricted Electives (9 hrs)

Any 3000 or 4000 level ART, ARE, ARH, PGY (with advisor's approval)

7. Internship II (ESE 4943) (12 hrs)

- All art courses and all methods courses must be completed before registering for Internship II
- See additional requirements listed under College of Education, Office of Clinical Experiences
- 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

Note: Internship II includes a 3 SH module on assessment.

8. 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)

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)

8. Total Semester Hours Required 127 hrs

BIOLOGY (B.S.)

College of Arts and Sciences
 Biology Department, BL 210, 407-823-2141
<http://pegasus.cc.ucf.edu/~biology/>

E-mail: biology@ucf.edu

W. Taylor, 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, 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 of the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.
- A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program (36 hrs)

(Note: Certain course selections must be made in the GEP for this major. These are indicated in italics. These required selections may bring the total GEP hours to more than 36.)

A. Communication Foundations 9 hrs

B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2311 Calculus or	
MAC 2241 Calculus for Life Sciences	4 hrs
Select STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select PHY 2053C College Physics	4 hrs
(PR:MAC 1105 and MAC 1114)	
Select BSC 2010C General Biology	4 hrs

2. Common Program Prerequisites (31 hrs)

BSC 2010C*	General Biology	4 hrs
BSC 2011C*	Biological Diversity	4 hrs
MAC 2311*	Calculus w/ Anal Geometry I	4 hrs
STA 2023*	Statistical Methods I	3 hrs
CHM 2045C	Chem Fund I	4 hrs
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

3. Core requirements (22-24 hrs)

CHM 2210	Organic Chem. I	3 hrs
	<i>and</i>	
CHM 2211 & L	Organic Chem. II & lab	5 hrs
	<i>or</i>	
CHM 3120C	Analytical Chemistry	5 hrs
	<i>and</i>	
CHM 2205	Intro Organic & Biochemistry	5 hrs
PCB 3034	Ecology	3 hrs
PCB 3063	Genetics	3 hrs
PCB 3023	Molecular Cell Biology	3 hrs
PCB 4683	Population Biol & Evolution	4 hrs

(Note: Students planning on entering professional or graduate school should take Biochemistry (BCH 4053, 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.
- No more than 12 hours of the upper division restricted electives may be taken outside the Biology Department.
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- Courses at the 5000 level are only open to seniors and beginning graduate students.

Form/Function	<i>(minimum of one lecture course)</i>	
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	4 hrs
BSC 4101	History of Biology	3 hrs
PCB 3063L	Genetics Laboratory	1 hr
PCB 3233	Immunology	3 hrs
PCB 4524	Molecular Biology II	3 hrs
a PCB 4723	Animal Physiology	4 hrs
PCB 4683L	Population Bio and Evolution Lab	1 hr
PCB 5107C	Adv Cell Biology	4 hrs
a PCB 5256C	Adv Develop Biology	4 hrs
PCB 5556C	Conser. Genetics	4 hrs
PCB 5665C	Human Genetics	4 hrs
a ZOO 3713C	Comparative Vert Anatomy	5 hrs
a ZOO 4603C	Embryology/Development	5 hrs
a ZOO 4753C	Vertebrate Histology	4 hrs
Environmental	<i>(minimum of one lecture course)</i>	
b BOT 3152C	Local Flora	3 hrs
b BOT 3800	Ethnobotany	3 hrs
b BOT 4156C	Florida Wildflowers	4 hrs
b BOT 4696C	Conservation of Native Plants	4 hrs
b BOT 5623C	Plant Geography & Ecology	4 hrs
BSC 4312C	Marine Biology	4 hrs
PCB 3034L	Ecology Laboratory	1 hr

PCB 3442	Florida Aquatic Ecology	3 hrs
PCB 4302C	Physicochemical Limnology	4 hrs
PCB 4303C	Biological Limnology	4 hrs
PCB 5045C	Conservation Biology	4 hrs
PCB 5328C	Landscape Ecology	4 hrs
PCB 5326C	Ecosystems of Florida	5 hrs
PCB 5485	Models in Ecology	3 hrs
PCB 5520	Behavioral Ecology	3 hrs
ZOO 4513	Animal Behavior	3 hrs
a ZOO 5815	Zoogeography	4 hrs
a ZOO 5881C	Fisheries Management	4 hrs
a ZOO 5893L	Repro Mgt Zool Env	1 hr
Systematic	<i>(minimum of one lecture course)</i>	
b BOT 4713C	Plant Taxonomy	5 hrs
b BOT 5485C	Terrestrial Cryptogams	3 hrs
a ENY 4004C	General Entomology	4 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3301C	Aquatic Biology	4 hrs
a ZOO 4205C	Bio & Ecol of Metazoan Inverts	4 hrs
a ZOO 4310C	Vertebrate Evolution & Ecol	4 hrs
a ZOO 5456C	Ichthyology	4 hrs
a ZOO 5463C	Herpetology	4 hrs
a ZOO 5475C	Ornithology	4 hrs
a ZOO 5486C	Mammalogy	4 hrs

Additional courses (e.g., BSC 4422L and BSC 5408L) may be used to meet a group requirement with approval of the Curriculum Committee via petition.

5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving documents on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors should not take any courses required in the major as a transient student at a community college.

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 hours

Related Programs: Molecular and Microbiology, Science Education, Environmental Engineering

Related Minors: Biology, Molecular and Microbiology

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:

The following substitutions are acceptable for common program prerequisites if taken as part of the AA course work:

UCF Degree Programs

- 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, MAC 2253 or MAC 2281
- 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.

BIOLOGY - PREPROFESSIONAL CONCENTRATION (B.S.)

College of Arts and Sciences

Biology Department, BL 210, 407-823-2141

<http://pegasus.cc.ucf.edu/~biology/>

E-mail: biology@ucf.edu

D. Kuhn

Students who hope to gain admission to a professional school (medical, dental, optometry, etc.) can meet the admission requirements while pursuing a Biology degree. The following track lists courses that will meet both sets of requirements.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- **Notice:** Professional schools do not accept AP or IB credit.
- Co-op or internship credit cannot be used in the major
- No more than four hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 23 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 of the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.
- A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program

(39 hrs)

- | | |
|---|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| Select MAC 2311 Calculus or | |
| MAC 2241 Calculus for Life Sciences | 4 hrs |
| Select STA 2023 Statistical Methods I | 3 hrs |
| D. Social Foundations | |
| Prefer PSY 2012 General Psychology | 3 hrs |
| Prefer ECO 2013 Macroeconomics | 3 hrs |
| E. Science Foundations | |
| Prefer PHY 2048 & L College Physics & lab | |
| (PR:MAC 2311) | 4 hrs |
| Select BSC 2010C General Biology | 4 hrs |

2. Common Program Prerequisites

(16 hrs)

- | | | |
|---------------|-----------------------------------|-------|
| BSC 2010C* | General Biology | GEP |
| BSC 2011C* | Biological Diversity | 4 hrs |
| MAC 2311* | Calculus w/ Analytic Geometry | GEP |
| STA 2023* | Statistical Methods I | GEP |
| CHM 2045C* | Chem Fund I | 4 hrs |
| CHM 2046 & L | Chem. Fund II & lab | 4 hrs |
| PHY 2048* & L | Physics for Engr. & Sci. I & Lab | GEP |
| PHY 2049* & L | Physics for Engr. & Sci. II & Lab | 4 hrs |

*See Transfer Notes for possible substitutes

3. Additional Core requirements

(22 hrs)

- | | | |
|--------------|--------------------------------|-------|
| PCB 3034 | Ecology | 3 hrs |
| PCB 3063 | Genetics | 3 hrs |
| CHM 2210 | Organic Chem. I | 3 hrs |
| CHM 2211 & L | Organic Chem. II & lab | 5 hrs |
| PCB 3023 | Molecular Cell Biology | 3 hrs |
| PCB 4683 | Population Biology & Evolution | 4 hrs |

4. Restricted Electives (Suggested)

(22 hrs)

The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements.

Form/Function

- | | | |
|---------------|--------------------------------|-------|
| BCH 4053 | Biochemistry I | 3 hrs |
| BCH 4054 | Biochemistry II | 3 hrs |
| PCB 3063L | Genetics Lab | 1 hr |
| PCB 4524 | Molecular Biology II | 3 hrs |
| PCB 3233 | Immunology | 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 |
| Environmental | | |
| b BOT 3800 | Ethnobotany | 3 hrs |
| Systematic | | |
| 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 documents 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 may not take any courses required in the major as a transient student at a community college.

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 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 hours

Related Programs: Biology, Chemistry, Molecular/Microbiology

Related Minors:

none

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:

- 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, MAC 2253 or MAC 2281
- PHY 2048 & 2049: 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.

CARDIOPULMONARY SCIENCES (B.S.)

College of Health and Public Affairs

HPA2 210; 407-823-2214

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

Undergraduate Program Director: L. Timothy Worrell

E-mail: worrell@mail.ucf.edu

Admission Requirements - Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program.

- **Separate Application** to the *limited access program* must be made directly to the program prior to February 1 of the year admission is sought
- UCF application must also be submitted by the program deadline of February 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.
- A personal interview is also required
- Student must complete all general education, foreign language admissions, and program prerequisites by the end of Spring Semester before starting 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". (No TSD credit may be used for prerequisite courses.)
- A one page statement of intent for entry into the profession must be included with the program application
- Applicants are required to have completed a basic life support (CPR) program prior to admission to the program
- FDLE background check required before personal interview

This department will continue to accept Associate in Arts (AA) and Associate in Science (AS) transfers, but those students admitted with the AS degree will need to complete the UCF General Education requirements. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of the articulation activity.

Note: 16 community college AA degree transfers and/or UCF undergraduates are admitted each Fall semester for the regular Cardiopulmonary Science program. Registered Respiratory Therapists (RRT's) are admitted **each semester** on a space available basis and have a separate application process.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida

- Public University/Community College System
- Student should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Cardiopulmonary Sciences Program
- UCF Residency Requirement: 32 hours
- 25% of course work must be completed in residency at UCF
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs
Select BSC 2010C	
Select CHM 1032 and lab	

2. Common Program Prerequisites (16 hrs)

MAC 1105	College Algebra	
STA 2023	Statistical Methods I	GEP
BSC 2010C	General Biology	GEP
MCB 2005C	Microbiology	4 hrs
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology*	4 hrs
CHM 1032&L	Chemistry for Health Sciences or higher level (with lab)	GEP
PHY 2053C	College Physics or higher lab (with lab)	4 hrs

* see transfer notes

3. Core Requirements (75 hrs)

RET 3026C	Intro. to Respiratory Care	4 hrs
RET 3484C	Cardiopulmonary Physiology	4 hrs
HSC 4550	Pathophysiologic Mechanisms	3 hrs
APB 4651	Medical Pharmacology I	2 hrs
HSC 3593C	HIV Disease: A Human Concern	3 hrs
RET 4503	Chest Medicine	3 hrs
RET 4244	Life Support Systems	3 hrs
RET 3483	Respiratory Clinical Assessment	3 hrs
RET 3264C	Mechanical Ventilation	3 hrs
APB 4652	Medical Pharmacology II	2 hrs
HSC 4500	Epidemiology	3 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

4. Upper Division Restricted Electives none

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

UCF Degree Programs

- 48 semester hours of upper division credit completed
- 32 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 127 hrs

Related Programs: Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate

Related Minors: Health Services Administration, Health Sciences, Molecular Biology & Microbiology, Biology, Chemistry

Transfer Notes:

Registered Respiratory Therapist / RRT Transfer-Credit by Examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardio-pulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This knowledge may be demonstrated by successful completion of the two part registry examination given by the National Board for Respiratory Care (NBRC). Only graduates of an accredited institution and program are eligible for the NBRC credentials. Students who successfully complete these requirements will have validated the knowledge and clinical competencies and will be awarded credit in their final semester with grades of "S" recorded in their transcripts.

Community College Equivalents

College Algebra (MAC 1105) <i>or</i> (higher level)	3 hrs
Statistics (STA 2023) <i>or</i> (higher level)	3 hrs
College Physics I (PHY 1007/L) <i>or</i> (PHY 3004/L) <i>or</i> higher level with labs	4 hrs
General Chemistry with Lab (CHM 1031/L) <i>or</i> (higher level)	4 hrs
General Biology with Lab (BSC 1005/L) <i>or</i> (higher level)	4 hrs
General Microbiology (MCB 2010C) <i>or</i> (MCB 2005) <i>or</i> (MCB 2020/L) <i>or</i> (PHA 2751)	4 hrs
Human Anatomy and Physiology I & II (BSC 2093C and 2094C) <i>or</i> (BSC X085 and X086) replaces Anatomy and Physiology courses (ZOO 3733C and PCB 3703C)	8 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	16	Spring	13
ENC 1101	3	ENC 1102	3
CHM 1032 and lab	3/1	MCB 2005C	4
BSC 2010C	4	MAC 1105	3
PSY 2012 <i>or</i>	3	EUH 2000 <i>or</i> HUM 2211	3
ANT 2000 <i>or</i> SYG 2000		<i>or</i> AMH 2010	
HSC 2000	2		

Summer

MAC 1114	3		
	3		
Sophomore Year			
Fall	14	Spring	13
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1600	3
EUH 2001 <i>or</i> HUM 2230 <i>or</i> AMH 2020	3	ECO 2013 <i>or</i> POS 2041	3
STA 2023	3	One course: ARH 2050	3
		ARH 2051, MUL 2010, THE1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	
Summer	8		
(Foreign Lang I)	4		
(Foreign Lang II)	4		
if not satisfied in high school			

Junior Year

Fall	16	Spring	14
RET 3026C	4	RET 4503	3
RET 3484C	4	RET 4244	3
HSC 4550	3	RET 3174	3
APB 4651	2	APB 4652	2
HSC 3593C	3	RET 3483	3
Summer	12		
RET 4414C	4		
RET 3264C	3		
RET 3874	5		

Senior Year

Fall	17	Spring	16
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RET 4284	3	RET 4285	3
RET 3875	8	RET 4876	8
RET 4715	3	RET 4934	2
RET 4034	3	HSC 4500	3

Minor

none

Accreditation

Upon completion of the undergraduate program, the baccalaureate individual will possess basic and advanced level skills and should be prepared to assume future leadership roles within the profession. Graduates will be prepared to become Registered Respiratory Therapists through licensure by the State of Florida.

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association.

CHEMISTRY (B.S.)

College of Arts and Sciences

Chemistry Department, CH 117, 407-823-2246

<http://www.cas.ucf.edu/chemistry>

E-mail: chemistry@ucf.edu

B. Madsen, 407-823-2230

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry
- Courses designated in 1 (General Education) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program

(39 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2311 Calculus	4 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select PHY 2048 & L Physics for Sci & Engr (PR:MAC 2311)	4 hrs
Select BSC 2010C General Biology	4 hrs

2. Common Program Prerequisites

(22 hrs)

CHM 2045C*	Chem Fund I	4 hrs
CHM 2046 & L	Chem Fund II with lab	4 hrs
CHM 2210	Organic Chem. I	3 hrs
CHM 2211	Organic Chem. II	3 hrs
MAC 2311*	Calculus w/ Anal Geometry I	GEP
MAC 2312*	Calculus w/ Anal Geometry II	4 hrs
PHY 2048 & L*	Physics Engr. & Sci. I & Lab	GEP
PHY 2049 & L*	Physics Engr. & Sci. II & Lab	4 hrs

*See Transfer Notes for possible substitutes

3. Core requirements

(39 hrs)

MAC 2313*	Calculus w/ Anal Geometry III	4 hrs
CHM 2211L	Organic Lab Techniques I	2 hrs
CHM 3212L	Organic Lab Techniques II	2 hrs
CHM 3120C	Analytical Chemistry	5 hrs
CHM 3410	Physical Chemistry I	4 hrs
CHM 3411	Physical Chemistry II	3 hrs
CHM 3411L	Physical Chemistry Lab	2 hrs
CHM 4610	Inorganic Chemistry	3 hrs
CHM 4610L	Inorganic Chemistry Lab	2 hrs
CHM 4130C	Adv Analytical Lab Technique	4 hrs
CHM 4914C	Undergraduate Research Methods	1 hrs
CHM 4912	Undergraduate Research	3 hrs
CHM 4930	Chemistry Seminar	1 hrs
BCH 4053	Biochemistry I	3 hrs
BSC 2010C	General Biology	GEP
Select one of the following		GEP
STA 1060C	Statistics Using Excel	
STA 2023	Statistical Methods I	
CGS 1060C	Intro to Computer Science	

* See Transfer Notes for possible substitutes

4. Upper Division Restricted Electives		(5 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
CHM 4615	Environmental Chem	3 hrs

5. Directed Elective (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 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 three weeks prior to the last day of regularly scheduled classes 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, a computer science course, or by departmental assessment
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed.
Note: Chemistry majors may count MAC 2313, CHM 2211, and PHY 2049 as upper division credit.
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Forensic Science, Molecular and Micro-biology, Science Education

Related Minors: Chemistry, Molecular and Microbiology

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:

- CHM 2045C*: may use CHM 1040 plus CHM 1041

- PHY 2048 & Lab: may use PHY 2053C
- PHY 2049* & Lab: may use PHY 2054C
- Physics: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics courses and Organic Chemistry classes are required for graduation.

* PHY 2048 & Lab and PHY 2049 & Lab are prerequisite courses for subsequent chemistry courses and will still have to be taken.

* The sequence MAC 2281, 2282, 2283 can be substituted for MAC 2311, 2312, 2313.

CINEMA STUDIES TRACK in FILM

See Film - Cinema Studies Track

CIVIL ENGINEERING (B.S.C.E.)

**College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE),
ENG2 211, 407-823 2841, Fax: 407-823-3315,
<http://www.cee.ucf.edu>**

Manoj Chopra, E-Mail: chopra@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

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 (38 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

- | | |
|---|-------|
| A. Communication Foundations | 9 hrs |
| 1. Take ENC 1101 | |
| 2. Take ENC 1102 | |
| 3. Prefer SPC 1016 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 7 hrs |
| 1. Take MAC 2281, Calculus for Scientists and Engineers I,(4 hrs) | |
| Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions. | |
| 2. Take STA 3032 (3 hrs) | |
| Note: Calculus II is the prerequisite for this course. | |
| D. Social Foundations | 6 hrs |
| 1. Take ECO 2013 <i>or</i> ECO 2023. | |
| 2. Take ANT 2000, PSY 2012, <i>or</i> SYG 2000. | |
| E. Science Foundations | 7 hrs |
| 1. Take PHY 2048/48L. | |
| 2. Take one course from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050). Earth Science is preferred. | |

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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

UCF Degree Programs

MAC 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities or Social Sciences		GEP

3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
CHM 2046	Chemistry Fundamentals II	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3331	Mechanics of Materials	3 hrs
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engineering	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
ENV 3001	Intro to Environmental Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
CEG 4101C	Geotechnical Engineering I	4 hrs
CES 4100C	Structural Analysis I	4 hrs
CES 4605	Steel Structures <i>or</i>	
CES 4702	Reinforced Concrete Structures	3 hrs
CWR 3201	Engineering Fluid Mechanics	3 hrs
CWR 4101C	Hydrology	3 hrs
CWR 4203C	Hydraulics	3 hrs
ENV 4561	Environment Engrng-Process Design	4 hrs
SUR 2101C	Surveying	3 hrs
TTE 4004	Transportation Engineering	4 hrs

4. Approved Technical Electives (3 hrs)

Technical electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- Approved CE Project Design Course I 3 hrs
- Approved CE Project Design Course II 3 hrs
- Civil engineering students must take the Engineering Intern Exam during their Senior year.
- Earn a minimum graduating GPA of 2.25 in each of the following two areas: (a) the Engineering Core and (b) the Civil Engineering Option, which includes the major courses from 3. above, the technical electives in 4., 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: Environmental Engineering

Related Minors: Mathematics.

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Civil Engineering - 128 semester hours required

FIRST YEAR

Fall	14 hrs ¹	Spring	15 hrs ¹
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*MAC 2281 Calc Sci & Eng I	4	*MAC 2282 Calc Sci & Eng II	4
*SPC 1016 Tech Presentations	3	*PHY 2048/L Phys Engr I w/lab	4
*ECO 2013 Macroeconomics <i>or</i>	3	*ANT/PSY/SYG <i>or</i>	3
ECO 2023 Microeconomics		*GEO GLY/BSC	
EGN 1006C Intro To Eng Prof	1	EGN 1007C Eng Con & Meth	1

SECOND YEAR

Fall	16 hrs ¹	Spring	16 hrs ¹
*MAC 2283 Calc Sci & Eng III	4	*MAP 2302 Diff Equations	3
*CHM 2045C/L Chem Funds I	4	*CHM 2046 Chemistry Funds II	3
*HUM/AMH/EUH - I	3	*PHY 2049/L Phys Eng II w/lab	4
EGN 3310 Engr Anal - Statics	3	*HUM/AMH/EUH - II	3
EGN 3613 Eng Econ Anal	2	EGN 3321 Engr Anal-Dynamic	3

Summer

	9 hrs ¹
*SUR 2101C Surveying	3
EGN 3331 Mech of Materials	3
ENV 3001 Intro to Environ Eng	3

THIRD YEAR

Fall	16 hrs	Spring	15 hrs ¹
CWR 3201 Eng Fluid Mechanics	3	CWR 4101C Hydrology	3
CCE 4003 Intro to Const Indus	3	CWR 4203C Hydraulics	3
EGN 3343 Thermodynamics	3	EGN 3373 Prin Elec Eng	3
CES 4100C Structural Analysis I	4	*Cultural/Historical Elective	3
STA 3032 Prob/Stats for Engrs	3	*ANT/PSY/SYG <i>or</i>	3
		*GEO/GLY/BSC	

FOURTH YEAR

Fall	15 hrs	Spring	12 hrs
TTE 4004 Transportation Eng	4	Approved Project Design Course	3
ENV 4561 Env Eng-Proc Desgn	4	Approved Project Design Course	3
CEG 4101C Geotechnical Engr	4	CES 4702 Reinforced Concrete Structures	3
CES 4605 Steel Structures <i>or</i> Technical Elective	3	<i>or</i> Technical Elective	
		EGN 3365 Str. & Prop Matls	3

Notes:

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.

CIVIL ENGINEERING - CONSTRUCTION ENGINEERING CONCENTRATION (B.S.C.E.)

**College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE),
ENG2 211, 407-823 2841, Fax: 407-823-3315,**

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

Manoj Chopra, E-Mail: chopra@mail.ucf.edu

Coordinator: Amr A. Oloufa, E-mail: aoloufa@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

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 (38 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

- | | | |
|--|--|---------|
| A. Communication Foundations | | 9 hrs |
| 1. Take ENC 1101 | | |
| 2. Take ENC 1102 | | |
| 3. Prefer SPC 1016 | | |
| B. Cultural and Historical Foundations | | 9 hrs |
| C. Mathematical Foundations | | (7 hrs) |
| 1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs) | | |
| Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions. | | |
| 2. Take STA 3032 (3 hrs) | | |
| Note: Calculus II is the prerequisite for this course. | | |
| D. Social Foundations | | 6 hrs |
| 1. Take ECO 2013 <i>or</i> ECO 2023. | | |
| 2. Take ANT 2000, PSY 2012, <i>or</i> SYG 2000. | | |
| E. Science Foundations | | 7 hrs |
| 1. Take PHY 2048/48L. | | |
| 2. Take one course from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050). Earth Science preferred. | | |

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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
MAC 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities or Social Sciences		GEP

3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
CHM 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
CCE 4XXX	Constr Materials <i>or</i>	3 hrs
EGN 3365	Struc & Prop of Materials	
CCE 4004	Construction Methods	3 hrs
CCE 4034	Construction Estimating & Scheduling	3 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
CEG 4101C	Geotechnical Engineering I	4 hrs
CES 4100C	Structural Analysis I	4 hrs
CES 4702	Reinforced Concrete Structures	3 hrs
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 Technical Electives (3 hrs)

Technical electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students are encouraged to take either EGN 3343 (Thermodynamics) or EGN 3373 (Principles of Elect Engr) 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 4810 Construction Engr. Design Project 3 hrs
- CEG 4801C Geotechnical Engr. Design 3 hrs
- Civil engineering students must take the Engineering Intern Exam during their Senior year.
- Earn a graduating GPA of 2.25 in each of the following two areas: (a) the Engineering Core and (b) the Civil Engineering Option, which includes the major courses from 3. above, the technical electives in 4., 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: Environmental Engineering.

Related Minors: Mathematics.

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

UCF Degree Programs

Civil Engineering - Construction Engineering Option

128 semester hours required

FIRST YEAR

Fall	14 hrs¹	Spring	15 hrs¹
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*MAC 2281 Calc Sci & Eng I2	4	*MAC 2282 Calc Sci & Eng II ²	4
*SPC 1016 Tech Presentations	3	*PHY 2048/L Phys Engr I w/lab	4
*ECO 2013 Macroeconomics <i>or</i>	3	*ANT/PSY/SYG <i>or</i>	3
ECO 2023 Microeconomics		*GEO GLY/BSC	
EGN 1006C Intro To Eng Prof	1	EGN 1007C Eng Con & Meth	1

SECOND YEAR

Fall	16 hrs¹	Spring	16 hrs¹
*MAC 2283 Calc Sci & Eng III ²	4	*MAP 2302 Diff Equations	3
*CHM 2045C/L Chem Funds I	4	*CHM 2046 Chemistry Funds II	3
*HUM/AMH/EUH - I	3	*PHY 2049/L Phys Eng II w/lab	4
EGN 3310 Engr Anal - Statics	3	*HUM/AMH/EUH - II	3
EGN 3613 Eng Econ Anal	2	EGN 3331 Mech of Materials	3

Summer

	9 hrs¹
*SUR 2101C Surveying	3
STA 3032 Prob/Stats Engineers	3
ENV 3001 Intro to Environ Eng	3

THIRD YEAR

Fall	16 hrs¹	Spring	15 hrs¹
EGN 3321 Engr Anal-Dynamics	3	ACG 2071 Accounting	3
CCE 4003 Intro Constr. Industry	3	CES 4702 Reinforced Concrete	3
CES 4100C Structural Analysis I	4	Structures <i>or</i> CES 4605 Steel	3
*ANT/PSY/SYG <i>or</i>	3	Structures	3
*GEO/GLY/BSC		CCE 4004 Construct Methods	3
EGN 3365 Struc & Prop of Mat	3	*Cultural/Historical Elective	3
		CWR 3201 Eng Fluid Mechanics	3

FOURTH YEAR

Fall	15 hrs	Spring	13 hrs
TTE 4004 Transportation Eng	4	CCE 4810 Constr Design Project	4
CCE 4034 Constr Est & Sched	3	CCE 4402 Constr Equip & Prod	3
CEG 4101C Geotechnical Engr	4	CEG 4801C Geotech Engr Design	3
CCE 4813 Mech & Elec Bldgs	4	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 this catalog for further information.

COMMUNICATIVE DISORDERS (B.A., B.S.)

College of Health and Public Affairs, HPA2 101

<http://www.cohpa.ucf.edu/comdis/>

Chair: R. Jane Lieberman, Phone: 407-823-4798

Undergraduate Coordinator: Jamie Schwartz

E-mail: schwart@mail.ucf.edu

Phone: 407-823-4798

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students must attend an orientation and consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida 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 and restricted elective
- The courses designated in section 1 (General Education) 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 Foundation | 6 hrs |
| Prefer MGF 1106 Finite Math | |
| Select STA 2023 | |
| D. Social Foundations | 6 hrs |

- Select PSY 2012 General Psychology
 Select one of the listed choices (ECO 2013, ECO 2023, POS 2041, SYG 2000, ANT 2000)
 E. Science Foundations 6 hrs
 Prefer BSC 1005 Gen Bio
 Select one of the listed choices (PSC 1121, PHY 2053C)

2. Common Program Prerequisites

none

3. Core Requirements

(58 hrs)

DEP 2004	Developmental Psychology	3 hrs
SPA 3002	Introduction to Communicative Disorders	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 8yrs	3 hrs
SPA 3011	Speech Science I: Speech Production	3 hrs
SPA 3011L	Speech Production Lab	1 hr
LIN 3717	Language Development: 9 though 18 yrs	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 4201	Articulation/Phonological Disorders	3 hrs
SPA 4032	Audiology	3 hrs
SPA XXXX	Language Analysis	3 hrs
SPA XXXXL	Language Analysis Lab	1 hr
SPA 4400	Language Disorders Across the Lifespan	3 hrs
SPA 4321	Aural Habilitation-Rehabilitation	3 hrs
EAB 3703	Principles of Behavior Management <i>or</i>	3 hrs
EDF 3307	Learning Environ & Guidance for Young Children	3 hrs
SPA 4050L	Clinical Observation	3 hrs
SPA 4550	Clinical Methods	3 hrs
SPA 4052L	Clinical Practice: Participant Observation	3 hrs

4. Statistics Requirement

(6 hrs)

STA 2023	Statistical Methods I	GEP
STA 4163	Statistical Methods II <i>or</i>	3 hrs
HSA 4701	Introduction to Research in the Health Professions	6 hrs

5. Upper Division Restricted Electives

(6 hrs)

An additional six credit hours of upper division course work in Communicative Disorders selected in consultation with the academic advisor.

6. Departmental Exit Requirements

Students must achieve a minimum grade of "C-" (1.75) in all required courses and restricted electives in the Department.

7. 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 health science courses (six credit hours) approved by the Department.

8. 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. ASL (American Sign Language) can only be used for restricted electives or foreign language admission requirement. It does not satisfy B.A. language requirement.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year.

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 hours**

Related Programs: Health Services Administration, Physical Therapy, Psychology, Social Work, Exceptional Education

Related Minors: Exceptional 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 2023 or STA 2014C to fulfill the first part of the statistics requirement

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	13 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
PSY 2012	3	PSC 1121 <i>or</i> PHY 2053C	3
BSC 1005	4	ECO 2013 <i>or</i> ECO 2023	3
One Course: ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120	3	<i>or</i> POS 2041 EUH 2000 <i>or</i> HUM 2211 <i>or</i> AMH 2010 DEP 2004	3
*Plan your required nine summer hours into your course of study			

Sophomore Year

Fall	12/13 hrs	Spring	15/16 hrs
SPC 1600	3	SPA 3002	3
EUH 2001 <i>or</i> HUM 2230 <i>or</i> AMH 2020	3	Restricted Elective EAB 3703 <i>or</i> EEC 4603	3
MGF 1106 <i>or</i> MAC 1105	3	<i>or</i> EEX 4601	3
Foreign Lang. I (B.A.) <i>or</i> Health Science (B.S.)	3/4	STA 2023 Foreign Lang II (B.A.) <i>or</i> Health Science (B.S.)	3/4

Summer **10 hrs**

SPA 3112	3
SPA 3112L	1
HSA 4701**	6
**If Gen. Ed. has not been met, take:	
STA 2023	3
STA 4163	3

Junior Year

Fall	13 hrs	Spring	16 hrs
LIN 3716	3	LIN 3717	3
SPA 3011	3	SPA 3123	3
SPA 3011	1	SPA 3123L	1
SPA 3101	3	SPA 4201	3
Elective	3	SPA 3104	3
		Elective	3

Senior Year

Fall	16 hrs	Spring	12 hrs
SPA 4032	3	SPA 4321	3
SPA 4400	3	SPA 4052LL	3
SPA XXXX	3	Elective	3
SPA XXXXL	1	Elective	3
SPA 4550	3		
SPA 4050LL	3		

Minor:

The Department of Communicative Disorders offers a minor consisting of a minimum of 22 semester hours. Required courses: SPA 3002, LIN 3716, SPA 3101, SPA 3112, SPA 3112L, SPA 4032, SPA 4201 and SPA 4400.

Licensed Speech Language and Audiology Assistant:

This state license may be obtained by completing the minor plus one additional course as recommended by the academic advisor.

Certificate Programs:

The Department of Communicative Disorders offers two undergraduate certificate programs: American Sign Language and Language Development and Disorders.

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 communicative disorders. Minimum requirements for entry into the graduate program typically include at least a 3.0 GPA in the last 60 hours of undergraduate work in the major. Entry level positions to provide speech and language services are available in some Florida school districts. Under the 2/5 Rule, individuals employed in these positions have two years from the date of employment to enroll in a master's program in communicative disorders and five years to complete the degree.

COMPUTER ENGINEERING (B.S.Cp.E.)

College of Engineering and Computer Science

School of Electrical Engineering and Computer Science

ENGR 407C, 407-823-2786, Fax: 407-823-5835,

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

C. S. Bauer Jr., E-Mail: bauer@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

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 (38 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations	9 hrs
1. Take ENC 1101	
2. Take ENC 1102	
3. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs)	
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.	
2. Take STA 3032 (3 hrs)	
Note: Calculus II is the prerequisite for this course.	
D. Social Foundations	6 hrs
1. Take ECO 2013 <i>or</i> ECO 2023.	
2. Take ANT 2000, PSY 2012, or SYG 2000.	
E. Science Foundations	7 hrs
1. Take PHY 2048/2048L.	
2. Prefer either GEO 1200 <i>or</i> GEO 2370.	

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP

UCF Degree Programs

PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities or Social Sciences		GEP

3. Courses Required for the Major (59 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 and normally are awarded grades of I, S, or U.

EEN 1006C	Intro to the Engineering Profession	1 hr
EEN 1007C	Engineering Concepts & Methods	1 hr
EEN 3310	Engineering Analysis - Statics	3 hrs
EEN 3321	Engineering Analysis - Dynamics <i>or</i>	
EEN 3358	Thermo-Fluids-Heat Transfer	3 hrs
EEN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists III	3 hrs
EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4767C	Computer System Design I	4 hrs
EEL 4768C	Computer System Design II	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
EEL 4851C	Engineering Data Structures	4 hrs
EEL 4882	Engineering System Software	3 hrs
EEL 4884C	Engineering Software Design	4 hrs

4. Approved Technical Electives (6 hrs)

Technical electives 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.

5. 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 Engineering Intern 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: Computer Science, Electrical Engineering, Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: Applied Computer Science, Computer Science.

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Computer Engineering - 128 semester hours required

FIRST YEAR

Fall	14 hrs^{1,3}	Spring	12 hrs^{1,3}
*Cult & Hist Foundations 1a	3	*ENC 1102 English Comp II	3
*ENC 1101 English Comp I	3	EGN 1007C Eng Conc & Meth	1
*SPC 1016 Tech Presentations	3	*MAC 2282 Calc Sci & Eng II	4
EGN 1006C Intro to Engr	1	*PHY 2048/L Phys for Eng/Sci I	4
*MAC 2281 Calc Sci & Eng I	4		

Summer

	10 hrs¹
*Social Foundations 1	3
*Science Foundations 2	3
*MAC 2283 Calc Sci & Eng III	4

SECOND YEAR

Fall	17 hrs¹	Spring	15 hrs¹
*MAP 2302 Diff Equations	3	EGN 3321 Engr Anal-Dynamics	
*PHY 2049 Phys Engr/Sci II	3	<i>or</i>	
*PHY 2049L Lab En/Sci II	1	EGN 3358 Ther-Flds-Ht Tran	3
CHS 1440 Chem for Engr	4	*PHY 3101 Physics for Engr III	3
EEN 3310 Engr Anal-Statics	3	EEL 3342C Intro Dig Circ/Sys	3
EEN 3420 Eng Analysis ²	3	EEL 3801C Intro Cmptr Engr2	3
		EEL 3004 Electrical Networks	3

Summer

	6 hrs¹
*ECO 2013 Macroeconomics <i>or</i>	3
ECO 2023 Macroeconomics	
*Cult & Hist Foundations 1b	3

THIRD YEAR

Fall	14 hrs	Spring	14 hrs
EEL 3306 Semicond'r Dev I	3	EEL 3307C Electronics I	4
EEL 4851C Eng Data Struc	4	EEL 3657 Linear Cont Sys	3
STA 3032 Prob/Stats for Engr	3	EEL 4767C Cmp Sys Des'n I	4
EEL 3123C Networks and Systems	4	EEL 4882 Engrng Sys S/W	3

FOURTH YEAR

Fall	14 hrs³	Spring	12 hrs¹
EEL 4768C Cmp Sys Dsgn II	4	*Cult & Hist Foundations 2	3
EEL 4884C Engr S/W Dsgn	4	Approved Technical Elective	3
EEL 4914 Senior Design I	3	EEL 4915L Senior Design II	3
Approved Technical Elective	3	EEL 4781 Cmp Comm Networks	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Integrated BS/MS Degree Program

The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

COMPUTER ENGINEERING - SOFTWARE ENGINEERING CONCENTRATION (B.S.Cp.E.)

College of Engineering and Computer Science

School of Electrical Engineering and Computer Science,
ENGR 407C, 407-823-2786, Fax: 407-823-5835,

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

C. S. Bauer, Jr., E-Mail: bauer@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

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 (38 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

- A. Communication Foundations 9 hrs
 - 1. Take ENC 1101
 - 2. Take ENC 1102
 - 3. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 7 hrs
 - 1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
 Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
 - 2. Take STA 3032 (3 hrs)
 Note: Calculus II is the prerequisite for this course.
- D. Social Foundations 6 hrs
 - 1. Take ECO 2013 *or* ECO 2023
 - 2. Take ANT 2000, PSY 2012, *or* SYG 2000
- E. Science Foundations 7 hrs
 - 1. Take PHY 2048/48L
 - 2. Prefer either GEO 1200 *or* GEO 2370

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute)	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

3. Courses Required for the Major (59 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 and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
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 II	3 hrs
EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs

EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4767C	Computer System Design I	4 hrs
EEL 4768C	Computer System Design II	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
EEL 4851C	Engineering Data Structures	4 hrs
EEL 4882	Engineering System Software	3 hrs
EEL 4884C	Engineering Software Design	4 hrs

4. Approved Technical Electives (6 hrs)

Technical electives are available in the BSCpE program to address specific student interests in a variety of technical areas. For those students with a declared interest in Software Engineering, a concentration in this area is available by taking the following technical electives, in addition to the required software engineering courses listed in 3. above.

EEL 5881	Software Engineering I	3 hrs
CEN 4020	Component Design in Software Engr or	3 hrs
EEL 5771C	Engr App's of Computer Graphics	3 hrs

5. 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 Engineering Intern 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: Computer Science, Electrical Engineering, Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: Applied Computer Science, Computer Science.

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Computer Engineering - Software Engineering Concentration 128 semester hours required

FIRST YEAR			
Fall	14 hrs^{1,2}	Spring	12 hrs^{1,2}
*Cult & Hist Foundations 1a	3	*ENC 1102 English Comp II	3
*ENC 1101 English Comp I	3	EGN 1007C Eng Conc & Meth	1
*SPC 1016 Tech Presentations	3	*MAC 2282 Calc Sci & Eng II	4
EGN 1006C Intro to Engr	1	*PHY 2048/L Phys for Eng/Sci I	4
*MAC 2281 Calc Sci & Eng I	4		
Summer	10 hrs¹		

UCF Degree Programs

*Social Foundations 1	3
*Science Foundations 2	3
*MAC 2283 Calc Sci & Eng III	4

SECOND YEAR

Fall	17 hrs ¹	Spring	15 hrs ¹
*MAP 2302 Diff Equations	3	EGN 3321 Engr Anal-Dynamics	
*PHY 2049 Phys Engr/Sci II	3	or	
*PHY 2049L Lab En/Sci II	1	EGN 3358 Ther-Flds-Ht Tran	3
CHS 1440 Chem for Engr	4	*PHY 3101 Physics for Engr III	3
EGN 3310 Engr Anal-Statics	3	EGN 3420 Eng Analysis2	3
EEL 3342C Intro Dig Circ/Sys	3	EEL 3801C Intro Cmptr Engr2	3
		EEL 3004 Electrical Networks	3

Summer	6 hrs ¹
*ECO 2013 Macroeconomics or	3
ECO 2023 Microeconomics	
*Cult & Hist Foundations 1b	3

THIRD YEAR

Fall	14 hrs	Spring	14 hrs
EEL 3306 Semicond'r Dev I	3	EEL 3307C Electronics I	4
EEL 4851C Eng Data Struc	4	EEL 3657 Linear Cont Sys	3
STA 3032 Prob/Stats for Engr	3	EEL 4767C Cmp Sys Des'n I	4
EEL 3123C Networks and Systems	4	EEL 4882 Engrng Sys S/W	3

FOURTH YEAR

Fall	14 hrs	Spring	12 hrs ¹
EEL 4768C Cmp Sys Dsgn II	4	*Cult & Hist Foundations 2	3
EEL 4884C Engr S/W Dsgn	4	CEN 4020 Comp Des S/W Engr	3
EEL 4914 Senior Design I	3	or EEL 5771C Eng AplComp Grph	
EEL 5881 Software Engr I	3	EEL 4915L Senior Design II	3
		EEL 4781 Comp Comm Ntwks	3

Notes:

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- Assumes knowledge of a higher level programming language (C preferred).
- 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.

Integrated BS/MS Degree Program

The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

COMPUTER SCIENCE (B.S.)

College of Engineering and Computer Science
School of Electrical Engineering and Computer Science
CSB 201

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

E-mail: computerscience@ucf.edu

Undergraduate Coordinator, 407-823-2341

Foundation Examination

Prior to taking courses beyond basic core requirements, students must pass a foundation exam (COT 3960) which covers problem solving techniques, algorithms, abstraction, proofs, and programming language skills. Tests will be administered each semester. Refer to the computer science website for more information about the foundation exam.

Degree Requirements

- Students must earn at least a 2.0 in each course in 2-6
- Students are required to consult with a departmental advisor 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 (39 hrs)

A. Communication Foundations	9 hrs
Select ENC 1101, ENC 1102	
Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs

C. Mathematical Foundations	
Select MAC 2311 Calculus	4 hrs
Select STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select PHY 2048 & L Physics for Sci & Engr (PR:MAC 2311)	4 hrs
Select any science course designed for majors (exclusive of Physics)	3 hrs

2. Common Program Prerequisites (14 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		3 hrs + GEP
Examples of acceptable science courses include:		
BSC 2010C	General Biology	
BSC 2011C	Biological Diversity	
CHM 2045C	Chem. Fund I	
CHM 2046	Chem. Fund II	

3. Basic Core requirements (21 hrs)

COP 3330	Intro to OO Programming	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	3 hrs
STA 2023	Statistical Methods I	GEP
ENC 3241	Technical Report Writing	3 hrs
CDA 3103C	Computer Organization	3 hrs
COT 3100C	Intro to Discrete Structures	3 hrs
PHI 3626	Ethics in Science and Technology	3 hrs
COT 3960	Foundation Exam	0 hrs

4. Intermediate Core (6 hrs)

COP 3402C	Systems Software	3 hrs
COP 3530C	Computer Science III	3 hrs

5. Advanced Core (12 hrs)

Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.

CDA 4150	Comp Architecture	3 hrs
COT 4210	Discrete Comp Structures	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs

6. Restricted Electives (18 hrs)

- 4000-5000 level Computer Science courses that must include COT 4810 (Topics in Computer Science). Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internships or cooperative education credits are allowed. 12 hrs
- 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.

7. School Exit Requirements

- Complete an exit survey
- Computer Competency met by completion of major

8. 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.

9. Electives (variable)

Select primarily from upper level courses, with the student's 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 hours**

Related Programs: Computer Engineering, Information Technology, Management Information Systems

Related Minors and Certificates: Applied Computer Science, Computer Information Technology, Computer Science

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.

Integrated BS/MS Degree Program

The Computer Science program offers the Integrated BS/MS degree to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

CRIMINAL JUSTICE (B.A./B.S.)

College of Health and Public Affairs

HPA I 311 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

Undergraduate Program Coordinator: David Fabianic

E-mail: cjadvice@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
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program **(36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - Select MGF 1106 Finite Math
 - Select CGS 1060C, STA 1060C, or STA 2014C
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites **none**

3. Core Requirements **(18 hrs)**

- CCJ 3024 Criminal Justice System 3 hrs
- CCJ 3014 Crime in America 3 hrs
- CJL 3510 Prosecution and Adjudication 3 hrs
- CJC 3010 Corrections and Penology 3 hrs
- CJE 4014 Police and Society 3 hrs
- CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. Upper Division Restricted Electives **(42 hrs)**

- 27 additional semester hours of upper division 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 internships or independent study credit.
- 15 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 **(120 hrs)**

Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level. The foreign language credits may be used toward the 15 hour supporting course requirement.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hours**

Related Programs: Legal Studies

Related Minors: Legal Studies, Public Administration, Psychology.

Transfer Notes:

"D" (1.0) grades are not accepted.

Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C	3	MGF 1106	3
PSC 1121 or CHM 1020	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, PAF 2102	3	or ANT 2000	
	2	EUH 2000 or HUM 2211 or AMH 2010	3
	2	Elective	3
*Plan your required 9 summer hours into your course of study			
Summer	3 hrs		
POS 2041 or ECO 2013	3		

Sophomore Year

Fall	12 hrs	Spring	15 hrs
SPC 1600	3	CCJ 3024	3
EUH 2001 or HUM 2230 or AMH 2020	3	CCJ 3014	3
BSC 1005 or BSC 1050 or GLY 1030 or GEO 1200 or ANT 2511	3	CCJ Elective	3
Elective	3	CCJ Elective	3

Summer **8 hrs**

- (Foreign Lang I) 4
- (Foreign Lang II) 4
- if not satisfied in high school

Junior Year

Fall	15 hrs	Spring	15 hrs
CJL 3510	3	CJE 4014	3
CJC 3010	3	CCJ 4701	3
CCJ Elective	3	CCJ Elective	3
Supporting Elective	3	Supporting Elective	3
CCJ Elective	3	CCJ Elective	3

Senior Year

Fall	15 hrs	Spring	9/15 hrs
CCJ Elective	3	CCJ Internship or	3/6
CCJ Elective	3	CCJ Elective	
Supporting Elective	3	Supporting Elective	3
Elective	3	Elective (if necessary)	3
Elective	3	Elective (if necessary)	3

UCF Degree Programs

DIGITAL MEDIA (B.A., B.S.)

College of Arts and Sciences

School of Film and Digital Media

<http://www.creat.cas.ucf.edu>

E-mail: digitalmedia@creat.cas.ucf.edu

Director: Sterling Van Wagenen

The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:

- Provide a solid foundation in techniques and theory in one focused area of competence.
- Provide a broad understanding of related disciplines including arts, humanities, and technology.
- Provide extended experience in working in multidisciplinary teams on realistic problems.

The program is administered through the College of Arts and Sciences, but draws on courses throughout the university. It recognizes that there are many combinations of courses which meet the needs of individual students. One concentration area (Computing for Media) leads to a Bachelor of Science degree; the others (Computer Animation, Digital Music, Graphic Design, Internet and Interactive Systems, Writing for Media) lead to a Bachelor of Arts degree.

Note: Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a laptop computer. Contact Digital Media or see the website (www.creat.dm.ucf.edu) for the minimum hardware and software specifications.

Admission Requirements none

Admission to IDS 4700C (Digital Media Production II) requires admission into one of the Advanced Specializations (section 4).

Degree Requirements

- UCF students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF
- Co-op or internship credits are not permitted in this major without prior, written permission.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
 B. Cultural and Historical Foundations 9 hrs
 Take one of the listed two semester courses, and
 If specializing in Computer Animation or Graphic Design, select ARH 2050.
 If specializing in Digital Music, select MUL 2010.
 Otherwise
 Select ARH 2050 or MUL 2010
- C. Mathematical Foundations 6 hrs
 If specializing in Computing for Media
 Select MAC 2311 Calculus with Anal Geo I and
 Select COP 3502C Computer Science I
 If specializing in Graphic Design or Animation
 Select MAC 1114 College Trigonometry
 Otherwise
 Select MAC 1105 College Algebra and
 Select COP 2500C Concepts in Computer Science
Note: these two courses fulfill the math GEP
- D. Social Foundations 6 hrs
 E. Science Foundations 6 hrs

2. Digital Media Core (18 hrs)

- | | | |
|-----------|--------------------------------------|-------|
| IDS 3707* | Digital Media Principles | 3 hrs |
| ART 2820 | Art as Interface | 3 hrs |
| ENC 4415 | Digital Rhetorics & Modern Dialectic | 3 hrs |
| PHI 3626 | Ethics in Sci & Technol | 3 hrs |
| IDS 3683 | Digital Media Production I | 3 hrs |
| MUC 3311* | MIDI Sequencing I <i>or</i> | 3 hrs |
| MUS 2360C | Music Technology | |
- *See transfer notes for possible substitutes.

3. Specialization. Choose one of the following 6 areas:

Note that each specialization has an audition, examination, or portfolio requirement which must be met before admission into the Advanced Concentration.

Graphic Design (B.A.) (39 hrs)

3A: Common Program Prerequisites - Graphic Design:

IDS 3707*	Digital Media Principles	3 hrs
MAC 1105	College Algebra	GEP
ART 2600C	Introduction to Computer Graphics	3 hrs
ARH 2050	Art History I	GEP
ARH 2051	Art History II	3 hrs
ART 2201C	Design Fundamentals I	3 hrs
ART 2203C	Design Fundamentals II	3 hrs
ART 2300C	Drawing Fundamentals I	3 hrs
ART 2301C	Drawing Fundamentals II	3 hrs
COP 2500C	Concepts in Computer Science	GEP
MUS 2550C*	Intro to Music Technology	3 hrs

* See transfer notes for possible substitutions.

3B: Graphic Design-Basic Concentration: None

3C: Graphic Design-Advanced Concentration:

Note: All Junior level students in this program must satisfactorily complete a mandatory portfolio review by the Art Department before enrolling in upper division courses. They must also have maintained at least a 2.5 overall average GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C prior to their portfolio review.

GRA 3100C	Intermediate Graphic Design I	3 hrs
GRA 3112C	Intermediate Graphic Design II	3 hrs
GRA 2140C	Computer Graphic Design	3 hrs
GRA 4195C	Advanced Graphic Design	3 hrs
GRA 4196C	Special Problems-Graphic Design	3 hrs

(Repeat for credit)

Computer Animation (B.A.): (42 hrs)

3A: Computer Animation - Common Program Prerequisites:

IDS 3707*	Digital Media Principles	3 hrs
MAC 1105	College Algebra	GEP
ART 2600C	Introduction to Computer Graphics	3 hrs
ARH 2050	Art History	GEP
ARH 2051	Art History II	3 hrs
ART 2201C	Design Fundamentals I	3 hrs
ART 2203C	Design Fundamentals II	3 hrs
ART 2300C	Drawing Fundamentals I	3 hrs
ART 2301C	Drawing Fundamentals II	3 hrs
COP 2500C	Concepts in Coputer Technology	GEP
MUS 2550C*	Intro to Music Technology	3 hrs

* See transfer notes for possible substitutions.

3B: Computer Animation - Basic Concentration: 3 hrs

FIL 3410	History of Animated Films	3 hrs
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3C: Computer Animation - Advanced Concentration:

Note: All junior level students in this program must satisfactorily complete a mandatory portfolio review by the Art Department before enrolling in upper division courses. They must also have maintained at least a 2.5 overall average GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C prior to their portfolio review.

FIL 3286C	Introduction to Animation	3 hrs
FIL 3287C	Intermediate Animation	3 hrs
FIL 4288C	Advanced Animation	3 hrs
FIL 4289C	Animation Workshop	3 hrs
ART 3643C	Digital Effects and Compositing	3 hrs

Computing for Media (B.S.): (46 hrs)

3A: Computing for Media - Common Program Prerequisites:

ARH 2050	Art History	GEP
MAC 2311	Calculus I	GEP
MAC 2312	Calculus II	3 hrs
COP 3223	C Language	3 hrs
IDS 3782CC	Assembling Media	3 hrs

or

FIL 2201	Foundations of Production	3 hrs
COP 3502C*	Computer Science I	GEP
MAC 1114	College Trigonometry	GEP
ART 2600C	Introduction to Computer Art	3 hrs
PHY 2048 & L	Physics for Engineers & Scientists I plus lab	4 hrs

3B: Computing for Media - Basic Concentration:

COP 3330	Object Oriented Programming	3 hrs
COP 3503C	Computer Science II	3 hrs
COT 3100C	Introduction to Discrete Structures	3 hrs
COT 3960*	Foundation Exam	0 hrs

*Must be passed for admission to advanced concentration.

3C: Computing for Media - Advanced Concentration:

Note: COT 3960 is required for these courses.		
COP 3530C	Computer Science III	3 hrs

COP 3346	Unix Programming	3 hrs
(Choose 15 hours from 3000 and 4000 level COP, CAP, CDA, or CDT courses, excluding Co-op)		
Recommended Courses		
CAP 4020	Digital Media	
CAP 4021	Building Virtual Worlds	
CAP 5725	Computer Graphics Systems I	
CAP 4453	Robot Vision <i>or</i>	
CAP 5415	Computer Vision	
COP 4520	Parallel and Distributed Processing	

Writing for Media (B.A.): (33 hrs)

3A: Writing for Media - Common Program Prerequisites:

ART 2600C	Introduction to Computer Art	3 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
MAC 1105	College Algebra	GEP
COP 2500C	Concepts in Computer Science	GEP

Select one course

ARH 2050	Art History I	GEP
ARH 2051	Art History II	
MUL 2010	Enjoyment of Music	

3B: Writing for Media - Basic Concentration:

ENC 4218	Visual Elements in Documentation	3 hrs
CRW 3410	Writing Scripts	3 hrs
ENG 3014	Theories & Tech of Lit. Study	3 hrs
ENC 3211	Theory & Practice Tech Writing	3 hrs
ENC 3311	Advanced Expository Writing	3 hrs

3C: Writing for Media - Advanced Concentration:
Note: Portfolio review required for these courses.

ENG 4114	Literature and Film	3 hrs
ENC 4215	Techniques of Tech. Publication	3 hrs
ENC 4312	Theory & Prac Persuasive Writing	3 hrs
CRW 3211	Creative Nonfiction Writing	3 hrs
ENC 3310	Magazine Writing	3 hrs

Digital Music (B.A.): (37 hrs)

3A: Digital Music - Common Program Prerequisites:

ART 2600C	Intro to Computer Art	3 hrs
MAC 1105	College Algebra	GEP
MUL 2010	Enjoyment of Music	GEP
MUT 1111	Music Theory 1A	2 hrs
MUT 1112	Music Theory 1B	2 hrs
MUT 2116	Music Theory IIA	2 hrs
MUT 2117	Music Theory IIB	2 hrs
MUT 1241	Ear Training/Sight Singing IA	1 hr
MUT 1242	Ear Training/ Sight Singing IB	1 hr
COP 2500C	Concepts in Computer Science	GEP

3B: Digital Music - Basic Concentration:

MUS 1010	Music Forum (four semesters)	0 hrs
MUN XXXX	Ensembles (four semesters)	4 hrs
MVB/MVK/MVP/MVS/ MVV/MVV	Performance (four semsters)	8 hrs

3C: Digital Music - Advanced Concentration:
Note: An audition is required for these courses.

MUC 4441	MIDI Sequencing II	3 hrs
FIL 4212	Sound Design	3 hrs
MUS 4645C	Music Post Production Techniques	3 hrs
MUC 4XXX	Composing for Digital Music	3 hrs

Internet and Interactive Systems (B.A.): (45 hrs)

3A: Internet - Common Program Prerequisites:

MAC 1105	College Algebra	3 hrs
ART 2600C	Introduction to Computer Art	3 hrs
ART 2201C	Design Fundamentals -Two Dimensional	3 hrs
IDS 3782C*	Assembling Media	3 hrs

Select one course

ARH 2050	The History of Art I	GEP
ARH 2051	The History of Art II	
MUL 2010	Enjoyment of Music	

* See transfer notes for possible substitutes.

3B: Internet - Basic Concentration:

COP 2500C	Concepts in Computer Science	GEP
IDS 4688C	Media for e-Commerce I	3 hrs
FIL 3625	Interactive Entertainment	3 hrs

Select one of the following 9 hour options (a, b, or c):

a) Select nine hours from the following:

ART 2300C	Drawing Fundamentals I
ART 2301C	Drawing Fundamentals II

ART 2201C	Design Fundamentals - Two Dimensional
ART 2203C	Design Fundamentals - Three Dimensional

b) Select nine hours from any other single Digital Media Specializations Basic Concentration Group

c) Select nine hours from

ART 2201C	Design Fundamentals I
IDS 3701C	Internet Software Design

Select one 3 hour course:

RTV 3280C	Prod of Interact Media
IDS 3782C	Assembling Digital Media

3C: Internet - Advanced Concentration:
Select any six of the following courses (18 hrs)

IDS 4681	Modeling for Realtime Graphics
IDS 4XXX	Modeling for Realtime Systems II
IDS 3687C	Digital Imagery
IDS 4686C	Game Design
IDS 4687C	Game Engines
IDS 4688C	Media for E-Commerce I
IDS 4704	Media for E-Commerce II
FIL 3624	Media Convergence
CAP 4020	Digital Media
EXP 5256	Human Factors I
FIL 4212	Sound Design
IDS 3715	Visual Language of the Moving Image
IDS 4XXX	Interactive Performance I
IDS 4XXX	UNIX for Graphic Integration

Any 3000 or 4000 level courses included in another Digital Media Concentration or any other upper level IDS Digital Media course.

4. Capstone Experience (12 hrs)

Admission to IDS 4700C (Digital Media Production II) requires students to be admitted into the Advanced Concentration within their Specialization

IDS 3648L	Digital Media Service I	1 hr
IDS 4685L	Digital Media Service II	1 hr
IDS 4686L	Digital Media Service III	1 hr
IDS 4700C	Digital Media Production II	3 hrs
IDS 4682L	Digital Media Project I	3 hrs
IDS 4703	Digital Media Project II	3 hrs

The capstone experience is a year long Senior Project, supervised by a multidisciplinary team of faculty. The student creates an innovative multimedia project and exhibits it in a public forum.

5. Foreign Language Requirements (0-11 hrs)

BA requirements:

Admission: Met by graduation requirement.

Graduation: *Writing for Media:* Three semesters or equivalent proficiency. One semester may be replaced by a cultural/ multicultural course. *All others:* two semesters or equivalent proficiency.

BS Requirements:

Admission: Two years of one foreign language in high school, or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

6. Electives (variable)

Electives will consist of 3000 and 4000-level courses as approved by the student's advisor.

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 hours)

Related Programs: Art, Animation, Computer Science, English, Film, Music

Related Minors: Art-Studio, Computer Information Technology, Computer Science, Digital Media, English-Technical Writing, Film, Music

Transfer Notes:

UCF Degree Programs

- 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.

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:

- COP 3502C may use any COP course. However, COP 3502C is a prerequisite for all Computer Science courses and still must be taken.
- MUS 2360C may use MUT 1004 (Fundamentals of Music)
- IDS 3707 (Digital Media Principles) may use IDS 2680 (Introduction to Digital Media)
- IDS 3782C (Assembling Media) use FIL 2201 or RTV 3280C

EARLY CHILDHOOD EDUCATION

(PRE-KINDERGARTEN THROUGH GRADE 3) (B.S.)

College of Education

Department of Child, Family, and Community Sciences Ed Building, Second floor, 407-823-2401

Chair: Wilfred Wienke, 407-823-2401

E-mail: wwienke@mail.ucf.edu

Program Coordinator: Lynn Hartle, 407-823-4163

E-mail: lhartle@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 four parts of the CLAST examination (no alternatives are accepted)
- Complete common program prerequisite courses
- Meet any special departmental requirements

Degree Requirements:

- Students should see an advisor
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

- A. Communication Foundations (9 hrs)
- ENC 1101 Composition I 3 hrs
 - ENC 1102 Composition II 3 hrs
 - SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundations* (9 hrs)
- AMH 2010 U.S. History 1492-1877 3 hrs
 - AMH 2020 U.S. History 1877-Present 3 hrs
 - PHI 2010 Introduction to Philosophy 3 hrs
- C. Mathematical Foundations* (6 hrs)
- MGF 1106 Finite Mathematics 3 hrs
- Select one:
- STA 1060C Basic Statistics using MS Excel *or* 3 hrs
 - STA 2014C Principles of Statistics 3 hrs
- D. Social Foundations (6 hrs)
- POS 2041 American National Government 3 hrs
 - PSY 2012 General Psychology 3 hrs
- E. Science Foundations (6 hrs)
- PSC 1121 Physical Science 3 hrs
- Select one:
- ANT 2511 The Human Species *or* 3 hrs
 - BSC 1005 Biological Principles 3 hrs

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)

- A. Communications (9 hrs)
- ENC 1101 Composition I GEP
 - ENC 1102 Composition II GEP
 - SPC 1600 Fundamentals of Oral Communication GEP
- B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy GEP
- Select one:
- ARH 2050 The History of Art I *or* 3 hrs
 - ARH 2051 The History of Art II *or*
 - MUL 2010 Enjoyment of Music *or*
 - THE 2000 Theatre Survey *or*
 - FIL 1001 Cinema Survey

- C. Mathematics (9 hrs)
- MAC 1105 College Algebra 3 hrs
 - MGF 1106 Finite Mathematics GEP
 - One of the following (per GEP) GEP
 - STA 1060C Basic Statistics using MS Excel *or*
 - STA 2014C Principles of Statistics
- D. Social Science/History (12 hrs)
- AMH 2010 U.S. History 1492-1877 GEP
 - AMH 2020 U.S. History 1877-Present GEP
 - POS 2041 American National Government GEP
 - PSY 2012 General Psychology GEP
- E. Science (9 hrs + lab)
- PSC 1121 Physical Science GEP
 - One of the following (per GEP) GEP
 - ANT 2511 The Human Species *or*
 - BSC 1005 Biological Principles
- Select one:
- AST 2002 Astronomy *or* 3 hrs
 - GEO 1200 Physical Geography *or*
 - GLY 1030 Geology and its Applications
- Select one associated science lab: 1 hr
- BSC 1005L Biological Principles Laboratory *or*
 - GEO 1200L Physical Geography Laboratory *or*
 - PSC 1121L Physical Science Laboratory
- F. Education Courses (9 hrs)
- EDF 2005 Introduction to Education 3 hrs
 - EDG 2701 Teaching Diverse Populations 3 hrs
 - EME 2040 Technology for Educators 3 hrs
- G. Diversity Courses GEP
- H. Other Program Prerequisites (6 hrs)
- Students must select an additional six hours in courses in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

3. Early Childhood Education Preprofessional Requirements (6 hrs)

Offered summer semesters. Must be taken prior to Internship II

- ARE 2011 Art & Creativity in Early Child Education 3 hrs
- MUE 2211 Music & Movement in Early Childhood 3 hrs

4. Specialization Requirements

Early Childhood Education majors take a variety of courses related to young children, their learning, their development, and family environment. Students majoring in Early Childhood 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. 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 Early Childhood Education program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty. Required Courses are as follows:

- Semester I (15 hrs)
- EDF 3740 Foundations of ECE 3 hrs
 - EDF 3120 Observing Child Growth & Development 3 hrs
 - LAE 3414 Children's Literature 3 hrs
 - EEC 3268 Play Development 3 hrs
 - TSL 4080 Theory and Practice of Teaching ESOL Students in Schools 3 hrs

- Semester II (15 hrs)
- EDF 3307 Learning Environments & Guidance 3 hrs
 - EEX 3450 Young Children with Special Needs 3 hrs
 - TSL 4141 Issues in Second Language Acquisition 3 hrs
 - RED 3310 Emergent Literacy 3 hrs
 - RED 3012 Basic Foundations of Reading 3 hrs

- Summer (6 hrs)
- EEX 4751 Parent Involvement 3 hrs
 - EEC 4731 Health, Safety, & Nutrition 3 hrs

- Semester III (12 hrs)
- RED 4311 Development of Literacy 3 hrs
 - MAE 4300 Exploring Mathematics 3 hrs
 - SCE 4023 Teaching Science & Technology 3 hrs
 - EEC 3940 Integration Internship I 3 hrs

- Semester IV (12 hrs)
- EEC 4943 Student Teaching (Internship II) 9 hrs

5. Internships

Internships comprise a critical part of the Early Childhood Education program. Therefore, it is crucial that the students are aware of the

expectations and requirements of internship placements. For detailed information including requirements and application deadlines see the *Undergraduate Catalog*, College of Education, Office of Clinical Experiences.

6. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. Departmental Exit Requirements

- Achieve a minimum 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 prior to 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
- 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)

9. Total Semester Hours Required 127 hours

Transfer Notes:

Courses transferred from private and out-of-state schools 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 Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements.

ECONOMICS (B.A.)

College of Arts and Sciences

Political Science Department, CNH 415, 407-823-2608

<http://pegasus.cc.ucf.edu/~politics>

E-mail: politics@ucf.edu

E. Viltes, Liberal Studies advising team, 407-823-0144

The Bachelor of Arts in Economics is designed for students with a liberal arts background, and will provide them with a strong foundation for future graduate studies or as training for a career in politics, teaching, research, social services and a variety of other areas. 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
- Co-op or internship credit cannot be used in the 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 hrs)

- | | |
|---|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| Select MAC 1105 College Algebra | 3 hrs |
| Select STA 2014C Principles of Statistics | 3 hrs |
| D. Social Foundations | |
| Select ECO 2013 Macroeconomics | 3 hrs |

- | | |
|--------------------------------|-------|
| PSY 2012, SYG 2000 or ANT 2000 | 3 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites (3 hrs)

- | | | |
|-----------|----------------|-------|
| ECO 2013* | Macroeconomics | GEP |
| ECO 2023* | Microeconomics | 3 hrs |
- *See Transfer Notes for possible substitutes

3. Core requirements (15 hrs)

- | | | |
|----------|--------------------------------|-------|
| ECO 3101 | Intermediate Price Theory | 3 hrs |
| ECO 3203 | Aggrer Eco Conditions Anal | 3 hrs |
| ECO 3401 | Quantitative Business Tools I | 3 hrs |
| ECO 3411 | Quantitative Business Tools II | 3 hrs |
| ECO 4451 | Research Methods in Economics | 3 hrs |

4. Upper Division Restricted Electives (18 hrs)

- International option-Select six courses:
- | | |
|-----------|--|
| ECO 3703 | International Economics |
| ECO 3723 | International Commercial Policy |
| ECO 4701 | The Global Economy |
| ECS 4003 | Comparative Economic Systems |
| ECS 4013 | Economic Development |
| ECS 4231* | The Japanese Economy |
| ECS 4303 | Economics of European Integration |
| ECS 4204 | Economics of the Pacific Rim |
| ECS 4210 | The Chinese Economy |
| ECS 4442H | Economic Development of Mexico and Central America |
| ECO 4941* | Economics Internship |
- * Requires departmental approval

- Standard option-Select six courses:
- | | |
|-----------|--|
| ECO 3223 | Money and Banking |
| ECO 3622 | American Economic History |
| ECO 3703 | International Economics |
| ECO 3723 | International Commercial Policy |
| ECO 4303 | History of Economic Thought |
| ECO 4412 | Economic Statistics and Econometrics |
| ECO 4504 | Economic of the Public Sector |
| ECP 3203 | Contemp Labor Economics |
| ECP 3433 | Transportation Economics |
| ECP 4403 | Business, Govt & Indust Organization |
| ECP 4603 | Urban and Regional Eco Problems |
| ECP 4703 | Managerial Economics |
| ECS 4003 | Comparative Economic Systems |
| ECS 4013 | Economic Development |
| ECS 4231* | The Japanese Economy |
| ECS 4303 | Economics of European Integration |
| ECS 4204 | Economics of the Pacific Rim |
| ECS 4210 | The Chinese Economy |
| ECS 4442H | Economic Development of Mexico and Central America |
| ECO 4701 | The Global Economy |
| ECO 4941* | Economics Internship |
- * Requires departmental approval

Multi-disciplinary Option:

- Select 4 courses from the standard list above
 Select 2 courses from one of the following emphasis*
- Political Economy*
 - Area Studies*
 - International Business*
 - Human Resources*
 - Legal Studies*
 - Financial Economics*
 - Quantitative methods*
- * Requires Program Advisor's approval

5. Required Minor (18 hrs minimum)

Completion of a minor in one of the following:
 Digital Media, Computer Science, History, Mathematics, Statistics, the Social and Behavioral Sciences, or Technical Writing.

6. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in required courses
- Computer Competency met by Research Methods course

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

UCF Degree Programs

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 hours**

Related Programs: Economics BS

Related Minors: Computer Science, Economics, Mathematics, Political Science, Psychology, Sociology, Statistics

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:

- ECO 2013* & 2023*: Any lower level Economics course. However ECO 2013 and 2023 are prerequisites for all subsequent economics courses and will need to be taken.

ECONOMICS (B.S.B.A.)

College of Business Administration

BA 240, 407-823-2184

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

R. Pennington; (407) 823-2640, rpennington@bus.ucf.edu

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

- | | |
|---|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| Select MAC 1105 College Algebra | 3 hrs |
| Select CGS 2100C Computer Fundamentals for Business | 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

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 MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

3. Common Body of Knowledge (30 hrs)

- | | | |
|---|--|-------|
| First Semester in the College of Business Administration: | | |
| GEB 3031 | Cornerstone | 6 hrs |
| GEB 3356 | Introduction to International Business | 3 hrs |
| First or subsequent semesters depending on major: | | |
| BUL 3130 | Legal & Ethical Environ. of Business | 3 hrs |
| ECO 3411 | Quantitative Business Tools II | 3 hrs |
| FIN 3403 | Business Finance | 3 hrs |
| MAN 3025 | Management of Organizations | 3 hrs |
| ISM 3011 | Essentials of Management Information Systems | 3 hrs |
| MAR 3023 | Marketing | 3 hrs |
| Last Semester: | | |
| MAN 4720 | Strategic Management | 3 hrs |

4. Special College and/or Departmental Requirements

- Only grades of "C" (2.0) or higher transfer into the program and

students must have a "C" (2.0) or better in each common program prerequisites class.

- Final exams will be given during Exam Week.
- Students must have at least a 2.0 GPA in the COB.
- 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 complete 60 credit hours in courses outside the College of Business.

5. Required Major Courses (9 hrs)

- | | | |
|----------|------------------------------------|-------|
| ECO 3101 | Intermediate Price Theory | 3 hrs |
| ECO 3203 | Aggregate Econ Conditions Analysis | 3 hrs |
| ECO 4451 | Research Methods in Economics | 3 hrs |

6. Upper Division Restricted Electives (18 hrs)

All economics majors will be required to take six (6) electives by choosing one of the following three options:

A. Standard Option - Select any six (6) 3000-4000 level economics courses other than the three required above.

B. International Option - Select any six (6) courses from the following list:

- | | | |
|-----------|--|-------|
| ECO 3703 | International Economics | 3 hrs |
| ECO 3723 | International Commercial Policy | 3 hrs |
| ECO 4701 | The Global Economy | 3 hrs |
| ECS 4003 | Comparative Economic Systems | 3 hrs |
| ECS 4013 | Economic Development | 3 hrs |
| ECS 4231 | The Japanese Economy | 3 hrs |
| ECS 4204 | The Economies of the Pacific Rim | 3 hrs |
| ECS 4210 | The Chinese Economy | 3 hrs |
| ECS 4303 | Economics of European Integration | 3 hrs |
| ECS 4442H | Economic Development of Mexico and Central America | 3 hrs |
| *ECO 4941 | Economics Internship | 3 hrs |

*Requires special approval

C. Multi-Disciplinary Option - Select any four (4) economic courses from the standard option of restricted electives PLUS any two courses from any one emphasis in consultation with faculty advisor.

- | | |
|------------|------------------------|
| Emphasis 1 | Political Economy |
| Emphasis 2 | Area Studies |
| Emphasis 3 | International Business |
| Emphasis 4 | Human Resources |
| Emphasis 5 | Legal Studies |
| Emphasis 6 | Financial Economics |
| Emphasis 7 | Quantitative Methods |

7. Economics Track: International Business

Required Courses* 9 hrs

- | | |
|----------|--|
| ECO 3101 | Intermediate Price Theory |
| ECO 3203 | Aggregate Economic Conditions Analysis |
| ECO 4451 | Research Methods in Economics |

Required International Courses** 9-15 hrs

- | | |
|----------|------------------------------------|
| ACG 4252 | International Accounting |
| ECO 4701 | The Global Economy |
| FIN 4604 | International Financial Management |
| MAN 4600 | International Management |
| MAR 4156 | International Marketing |

Electives*** 3-9 hrs

- | | |
|-----------|--|
| ECS 4231 | Japanese Prosperity |
| ECS 4204 | Economies of the Pacific Rim |
| ECS 4003 | Comparative Economic Systems |
| ECO 3703 | International Economics |
| ECS 4013 | Economic Development |
| ECO 3723 | International Commercial Policy |
| ECS 4303 | Economics of European Integration |
| ECS 4210 | Chinese Economy |
| ECS 4442H | Economic Development of Mexico and Central America |

* Required for BSBA-ECO-IB track

** Required international + electives must add up to 18 hours

*** IB 2000 may be used for up to 6 credit hours. Other approved internship or independent studies may be used for up to three credit hours.

- **Note:** the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

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 hours

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 Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative 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.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

Four Year Plan of Study - Economics

Freshman			
Fall	15 hrs	Spring	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100C*	3
Must complete 9 hours in a summer semester			

Sophomore			
Fall	15 hrs	Spring	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			
Fall	15 hrs	Spring	15 hrs
GEB 3031	6	ECO 3411	3
GEB 3356	3	MAN 3025	3
MAR 3023	3	ECO 3203	3

ECO 3101	3	FIN 3403	3
		ECO Elective	3
Senior			
Fall	15 hrs	Spring	15 hrs
ECO Elective	3	MAN 4720	3
ISM 3011	3	***Elective	3
BUL 3130	3	ECO Elective	3
ECO Elective	3	ECO 4451	3
ECO Elective	3	ECO Elective	3

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

ECONOMICS (B.A./M.A.A.E. and B.S.B.A./M.A.A.E.)

Accelerated Undergraduate/Graduate Program

Note: For detailed information about these programs, see descriptions in the "Accelerated Undergraduate/Graduate Program" section of this *Undergraduate Catalog*.

ELECTRICAL ENGINEERING (B.S.E.E.)

**College of Engineering and Computer Science
School of Electrical Engineering and Computer Science,
ENGR 408, 407-823-2786, Fax: 407-823-5835,
<http://www.ee.ucf.edu>**

K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, **Orientation**, found elsewhere in this catalog.

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 (38 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs **A** through **E**. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

A. Communication Foundations	9 hrs
1. Take ENC 1101	
2. Take ENC 1102	
3. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).	
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.	
2. Take STA 3032 (3 hrs).	
Note: Calculus II is the prerequisite for this course.	
D. Social Foundations	6 hrs
1. Take ECO 2013 <i>or</i> ECO 2023.	
2. Take ANT 2000, PSY 2012, <i>or</i> SYG 2000.	
E. Science Foundations	7 hrs
1. Take PHY 2048/48L.	
2. Prefer either GEO 1200 <i>or</i> GEO 2370.	

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must contin-

UCF Degree Programs

ue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

3. Courses Required for the Major (55 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
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
EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Signal Analysis and Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

4. Approved Technical Electives (10 hrs)

Technical electives 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.

5. 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 Engineering Intern 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: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - 128 semester hours required

FIRST YEAR

Fall	12 hrs^{1,3}	Spring	15 hrs^{1,3}
EGN 1006C Intro to Engr	1	EGN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*CHS 1440 Chem for Engrs	4	*SPC 1016 Tech Presentations	3
*MAC 2281 Calc Sci & Eng I	4	*MAC 2282 Calc Sci & Eng II	4
		*PHY 2048/L Phys Eng I w/lab	4

Summer

	11 hrs¹
*Cult & Hist Foundations 1a	3
*MAC 2283 Calc Sci & Eng III	4
*PHY 2049 Phys for Engr/Sci II	3
*PHY 2049L Phys Lab En/Sci II	1

SECOND YEAR

Fall	15 hrs¹	Spring	15 hrs¹
*MAP 2302 Diff Equations	3	*Cult & Hist Foundations 2	3
*PHY 3101 Phys for Engr/Sci III	3	EGN 3310 Engr Anal-Statics	3
*Science Foundations 2	3	EEL 3342C Intro to Dig Circ/Sy	3
*Social Foundations 1	3	EEL 3801C Intro to Cmptr Engr ²	3
EGN 3420 Engineering Anal ²	3	EEL 3004 Electrical Networks	3

Summer

	6 hrs¹
*Cult & Hist Foundations 1b	3
*ECO 2013 Macroeconomics <i>or</i>	3
ECO 2023 Microeconomics	

THIRD YEAR

Fall	14 hrs	Spring	13 hrs
EEL 3306 Semicond Devices I	3	EEL 3307C Electronics I	4
STA 3032 Prob & Stats Engrs	3	EEL 3657 Linear Control Sys	3
EEL 4767C Cmptr Sys Design I	4	EEL 4750 Dig Signal Proc Fund	3
EEL 3123C Networks and Systems	4	EGN 3321 Engr Anal-Dynamics	3
		<i>or</i>	
		EGN 3358 Ther-Flds-Ht Transfer	

FOURTH YEAR

Fall	14 hrs	Spring	13 hrs
EEL 3552C Sig Anal&Comm	4	Approved Technical Elective	3
EEL 3470 Electromagnetic Flds	3	Approved Technical Elective	3
EEL 4309C Electronics II	4	Approved Technical Elective	4
EEL 4914 Senior Design I	3	EEL 4915L Senior Design II	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

ELECTRICAL ENGINEERING - MICROELECTRONICS CONCENTRATION (B.S.E.E.)

**College of Engineering and Computer Science
School of Electrical Engineering and Computer Science,
ENGR 408, 407-823-2786, Fax: 407-823-5835,**

http://www.ee.ucf.edu

K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

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 (38 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

- A. Communication Foundations 9 hrs
 - 1. Take ENC 1101
 - 2. Take ENC 1102
 - 3. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 7 hrs
 - 1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
 - 2. Take STA 3032 (3 hrs).
Note: Calculus II is the prerequisite for this course.
- D. Social Foundations 6 hrs
 - 1. Take ECO 2013 *or* ECO 2023.
 - 2. Take ANT 2000, PSY 2012, *or* SYG 2000.
- E. Science Foundations 7 hrs
 - 1. Take PHY 2048&L.
 - 2. Prefer either GEO 1200 *or* GEO 2370.

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048&L	Physics for Engineers & Scientists I	GEP
PHY 2049&L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

3. Courses Required for the Major (55 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 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 and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
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
EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Signal Analysis and Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

4. Approved Technical Electives (10 hrs)

Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those students with a declared interest in microelectronics, a concentration in this area is available by taking three of the following technical electives in addition to the required microelectronics courses listed in 3. above.

EEL 4314	Device Electronics for Integ Circuits	3 hrs
EEL 5357	CMOS Analog and Digital IC Design	3 hrs
EEL 5353	Semiconductor Dev Modeling & Sim	3 hrs
EEL 5355C	Fabrication of Solid State Devices	4 hrs

5. 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 Engineering Intern 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: 128 hours

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engi-

UCF Degree Programs

neering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - Microelectronics Concentration 128 semester hours required

FIRST YEAR

Fall	12 hrs ^{1,3}	Spring	15 hrs ^{1,3}
EGN 1006C Intro to Engr	1	EGN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*CHS 1440 Chem for Engrs	4	*SPC 1016 Tech Presentations	3
*MAC 2281 Calc Sci & Eng I	4	*MAC 2282 Calc Sci & Eng II	4
		*PHY 2048/L Phys Eng I w/lab	4

Summer

	11 hrs ^{1,2,4}
*Cult & Hist Foundations 1a	3
*MAC 2283 Calc Sci & Eng III	4
*PHY 2049 Phys for Engr/Sci II	3
*PHY 2049L Phys Lab En/Sci II	1

SECOND YEAR

Fall	15 hrs ¹	Spring	15 hrs ¹
*MAP 2302 Diff Equations	3	*Cult & Hist Foundations 2	3
*PHY 3101 Phys Engr/Sci III	3	EGN 3310 Engr Anal-Statics	3
*Science Foundations 2	3	EEL 3342C Intro to Dig Circ/Sys	3
*Social Foundations 1	3	EEL 3801C Intro to Cmptr Engr2	3
EGN 3420 Engineering Anal ²	3	EEL 3004 Electrical Networks	3
Summer 6 hrs¹			
*Cult & Hist Foundations 1b	3		
*ECO 2013 Macroeconomics or	3		
ECO 2023 Microeconomics			

THIRD YEAR

Fall	14 hrs	Spring	13 hrs
EEL 3306 Semicond Devices I	3	EEL 3307C Electronics I	4
STA 3032 Prob & Stats Engrs	3	EEL 3657 Linear Control Sys	3
EEL 4767C Cmptr Sys Design I	4	EEL 4750 Dig Signal Proc Fund	3
EEL 3123C Networks and Systems	4	EGN 3321 Engr Anal-Dynamics	3
		<i>or</i>	
		EGN 3358 Ther-Flds-Ht Transfer	

FOURTH YEAR

Fall	14 hrs	Spring	12/13 hrs
EEL 3552C Sig Anal&Comm	4	EEL 4314 Dev Elec Int Circ	3
EEL 3470 Electromagnetic Flds	3	EEL 5357 CMOS IC Design	3
EEL 4309C Electronics II	4	EEL 4915L Senior Design II	3
EEL 4914 Senior Design I	3	EEL 5353 Semicond Dev Sim	3/4
		<i>or</i>	
		EEL 5355C Fab Sol St Devices	

Notes:

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- Assumes knowledge of a higher level programming language (C preferred).
- 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.

Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

ELECTRICAL ENGINEERING - WIRELESS COMMUNICATION CONCENTRATION (B.S.E.E.)

College of Engineering and Computer Science
School of Electrical Engineering and Computer Science,
ENGR 408, 407-823-2786, Fax: 407-823-5835,
<http://www.ee.ucf.edu>

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

K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

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 (38 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| 1. Take ENC 1101 | |
| 2. Take ENC 1102 | |
| 3. Prefer SPC 1016 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 7 hrs |
| 1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs). | |
| Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions. | |
| 2. Take STA 3032 (3 hrs). | |
| Note: Calculus II is the prerequisite for this course. | |
| D. Social Foundations 6 hrs | |
| 1. Take ECO 2013 or ECO 2023. | |
| 2. Take ANT 2000, PSY 2012, <i>or</i> SYG 2000. | |
| E. Science Foundations | 7 hrs |
| 1. Take PHY 2048/48L. | |
| 2. Prefer either GEO 1200 <i>or</i> GEO 2370. | |

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

3. Courses Required for the Major (55 hrs)

The College of Engineering and Computer Science requires all engi-

neering 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 and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
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
EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Signal Analysis and Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

4. Approved Technical Electives (10 hrs)

Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those students with a declared interest in wireless communication, a concentration in this area if available by taking the following technical electives in addition to the required communication courses listed in 3. above.

EEL 4512C	Communication Systems	4 hrs
EEL 5555C	RF and Microwave Communications	3 hrs
EEL 5513	Digital Signal Processing Apps <i>or</i>	
EEL 5462C	Antenna Analysis and Design	3 hrs

5. 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 Engineering Intern 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: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop

and maintain an appropriate plan of study.

Electrical Engineering - Wireless Communication Concentration

128 semester hours required

FIRST YEAR

Fall	12 hrs^{1,3}	Spring	15 hrs^{1,3}
EGN 1006C Intro to Engr	1	EGN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*CHS 1440 Chem for Engrs	4	*SPC 1016 Tech Presentations	3
*MAC 2281 Calc Sci & Eng I	4	*MAC 2282 Calc Sci & Eng II	4
		*PHY 2048/L Phys Eng I w/lab	4

Summer

	11 hrs¹
*Cult & Hist Foundations 1a	3
*MAC 2283 Calc Sci & Eng III	4
*PHY 2049 Phys for Engr/Sci II	3
*PHY 2049L Phys Lab En/Sci II	1

SECOND YEAR

Fall	15 hrs¹	Spring	15 hrs¹
*MAP 2302 Diff Equations	3	*Cult & Hist Foundations 2	3
*PHY 3101 Phys Engr/Sci III	3	EGN 3310 Engr Anal-Statics	3
*Science Foundations 2	3	EEL 3342C Intro to Dig Circ/Sys	3
*Social Foundations 1	3	EEL 3801C Intro to Cmptr Engr ²	3
EGN 3420 Engineering Anal ²	3	EEL 3004 Electrical Networks	3

Summer

	6 hrs¹
*Cult & Hist Foundations 1b	3
*ECO 2013 Macroeconomics <i>or</i>	3
ECO 2023 Microeconomics	

THIRD YEAR

Fall	14 hrs	Spring	13 hrs
EEL 3306 Semicond Devices I	3	EEL 3307C Electronics I	4
STA 3032 Prob & Stats for Engr	3	EEL 3657 Linear Control Sys	3
EEL 4767C Cmptr Sys Design I	4	EEL 4750 Dig Signal Proc Fund	3
EEL 3123C Networks and Systems	4	EGN 3321 Engr Anal-Dynamics	3
		<i>or</i>	
		EGN 3358 Ther-Flds-Ht Transfer	

FOURTH YEAR

Fall	14 hrs	Spring	13 hrs
EEL 3552C Sig Anal&Comm	4	EEL 4512C Comm Systems	4
EEL 3470 Electromagnetic Flds	3	EEL 5555C RF & Microwave	3
EEL 4309C Electronics II	4	EEL 4915L Senior Design II	3
EEL 4914 Senior Design I	3	EEL 5513 Dig Sig Proc Apps	3
		<i>or</i>	
		EEL 5462C Ant Anal & Design	

Notes

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

ELECTRICAL ENGINEERING TECHNOLOGY - COMPUTER SYSTEMS CONCENTRATION (B.S.E.E.T.)

**College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207**

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

Coordinator: Alireza Rahrooh

407-823-4749 Fax: 407-823-4746

E-mail: rahrooh@pegasus.cc.ucf.edu

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

Admission Requirements

none

Degree Requirements

- Students should check with their ENT faculty advisor frequently to insure that they are making proper progress toward the degree.

UCF Degree Programs

■ A grade of "C" (2.0) or better is required in all prerequisites.

1. UCF General Education Program (38 hrs)

- A. Communication Foundations 9 hrs
 Take ENC 1101, ENC 1102
 Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 1. MAC 1105 3 hrs
 2. CGS 1060C or STA 2014C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
 1. BSC 1005&L, BSC 1050&L, or GEO 1200&L 4 hrs
 2. PHY 2053C 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)

- MAC 2253 Calculus I 3/4 hrs
 or MAC 2311
- MAC 2254 Calculus II or equiv 3/4 hrs
 or MAC 2312
- PHY 2053C Physics I/Lab GEP
 or PHY 2048/L

3. Engineering Technology Core Requirements (27/28 hrs)

- BSC 1005/L, BSC 1050/L, GEO 1200/L GEP
- ENC 3241 Writing for the Technical Professional 3 hrs
- MAC 1105 College Algebra GEP
- MAC 1114 College Trigonometry 3 hrs
- MAC 2253 Calculus I or CPP
- MAC 2311
- MAP 3401 Problem Analysis or 3 hrs
- MAC 2312 Calculus II 4 hrs
- PHY 2053C College Physics I CPP
- PHY 2054C College Physics II 4 hrs
- ETG 3541 Applied Mechanics 3 hrs
- ETI 3651C Computer Applications 3 hrs
- ETI 3671 Technical Economic Analysis 2 hrs
- ETI 3116 Applied Engrng Quality Assurance 3 hrs
- ETI 4448 Applied Project Management 3 hrs

4. Technical Specialization (53 hrs)

Lower Level Required and Elective Courses (18 hrs)

- EST 3543C Programmable Logic Controllers 3 hrs
- CET 3323C Digital Technology 4 hrs
- CET 2364 System Applications in C 3 hrs
- EET 3085C Electricity and Electronics 4 hrs
- EET 1025C AC Circuits 4 hrs

Upper Level Required Courses (30 hrs)

- CET 3198C Digital Systems 3 hrs
- CET 3503 Microcomputer Technology I 3 hrs
- CET 3383 Applied Systems Analysis I 3 hrs
- CET 4333 Computer Organization & Design 3 hrs
- CET 4427 Applied Database I 3 hrs
- CET 4505 Applied Operating Systems I 3 hrs
- EET 3716 Network Analysis 3 hrs
- CET 4138 Digital Programmable Devices 3 hrs
- CET 4134C Microprocessor Elec II 3 hrs
- CET 4429 Applied Database II 3 hrs

Upper Level Technical Electives (6 hrs)

See faculty advisor for list of approved Technical Electives.

5. Departmental Exit Requirement (3 hrs)

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University 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 hours

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration)

Related Minors: none

Transfer Notes:

Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.

- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Computer Systems Concentration

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 students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year		12 hrs	
Fall	13/14 hrs	Spring	12 hrs
MAC 2253/2311 Calculus I	3/4	MAP 3401 Prob Analysis or MAC 2312 Calculus II	3/4
PHY 2054C/2049 Physics II	4	ETG 3541 Appl Mechanics	3
ETI 3116 App Eng Quality Assur	3	CET 3383 Appl Sys Anal I	3
CET 4427 Applied Database I	3	CET 3198C Digital Systems	3
Summer		10 hrs	
EET 3716 Network Analysis	3		
CET 4333 Computer Org	3		
CET 4138 Prog. Digital Devices	4		
Senior Year		14 hrs	
Fall	16 hrs	Spring	14 hrs
PHY 2054C/2049 Physics II	4	ETG 4950C Senior Design Proj	3
CET 3503 Microcomputer Tech I	3	CET 4427 Applied Database II	3
CET 4505 Appl Oper Sys I	3	ETI 3671 Tech Econ Anal	2
ETI 3651C Computer Appl	3	ETI 4635 Tech Admin	3
CET 4134C Micro electronics II	3	CET Elective	3

ELECTRICAL ENGINEERING TECHNOLOGY - ELECTRICAL SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

ENGR 207

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

Coordinator: Alireza Rahrooh

407-823-4749 Fax: 407-823-4746

E-mail: rahrooh@pegasus.cc.ucf.edu

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

Admission Requirements

none

Degree Requirements

- Students should check with their ENT faculty 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.

1. UCF General Education Program	(38 hrs)
A. Communication Foundations	9 hrs
Select ENC 1101, 1102	
Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. MAC 1105	3 hrs
2. CGS 1060C <i>or</i> STA 2014C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. BSC 1005&L, BSC 1050&L, <i>or</i> GEO 1200&L	4 hrs
2. PHY 2053C	4 hrs

2. Common Program Prerequisites (CPP)	(6/8 hrs)
MAC 2253 <i>or</i> Calculus I	3/4 hrs
MAC 2311	
MAC 2254 <i>or</i> Calculus II or equiv	3/4 hrs
MAC 2312	
PHY 2053C <i>or</i> Physics I/Lab	GEP
PHY 2048/L	

3. Engineering Technology Core Requirements	(27/28 hrs)
BSC 1005/L, BSC 1050/L, GEO 1200/L	GEP
ENC 3241 Writing for the Technical Professional	3 hrs
MAC 1105 College Algebra	GEP
MAC 1114 College Trigonometry	3 hrs
MAC 2253 <i>or</i> Calculus I	CPP
MAC 2311	
MAP 3401 Problem Analysis <i>or</i>	3 hrs
MAC 2312 Calculus II	4 hrs
PHY 2053C College Physics I	CPP
PHY 2054C College Physics II	4 hrs
ETG 3541 Applied Mechanics	3 hrs
ETI 3651C Computer Applications	3 hrs
ETI 3671 Technical Economic Analysis	2 hrs
ETI 3116 Applied Engrng Quality Assurance	3 hrs
ETI 4448 Applied Project Management	3 hrs

4. Technical Specialization	(55-57 hrs)
Lower Level Required and Elective Courses	(26 hrs)
EST 3543C Programmable Logic Controllers	3 hrs
CET 3323C Digital Fundamentals	4 hrs
CET 2364 System Applications in C	3 hrs
EET 2141C Analog Devices	4 hrs
EET 2142C Analog Circuits	4 hrs
EET 3143C Electronic Devices and Circuits	4 hrs
EET 1025C Electrical Circuits	4 hrs
EET 3085C Electricity and Electronics	4 hrs
Upper Level Required Courses	(21 hrs)
CET 3198C Digital Systems	3 hrs
CET 3503 Microcomputer Technology I	3 hrs
CET 3144C Applied Microprocessor Technology II <i>or</i>	
CET 4134C Microprocessor Electronics II	3 hrs
EET 3716 Network Analysis	3 hrs
EET 4158C Linear Integrated Circuits	3 hrs
EET 4548 Power Systems	3 hrs
EET 4732C Feedback Control Systems	3 hrs
Upper Level Technical Electives	(7 hrs)
Select 7 hours from courses listed below:	
CECET 4138 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

5. Departmental Exit Requirement	(3 hrs)
■ ETG 4950C Senior Design Project	3 hrs
■ A grade of 2.0 or better is required in all prerequisites.	

6. Foreign Language Requirements	(0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.	
Graduation:	none

7. Approved Technical Electives	(0-4 hrs)
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.	

8. University Minimum Graduation Requirements
■ A 2.0 UCF GPA

- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: **128 hours**

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: **none**

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Electrical Systems Concentration

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 students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year			
Fall	13/14 hrs	Spring	15/16
hrs			
MAC 2253 Applied Calc I	3/4	MAP 3401 Problem Analysis <i>or</i>	3/4
<i>or</i>		MAC 2312 Calculus II	
MAC 2311 Calc w/Anal Geom I		CET 3144C App MicroProcessor II	3
CET 3198C Digital Systems	3	ETG 3541 Applied Mechanics	3
CET 3503 Microcom Tech I	3	EET 3716 Network Anals	3
PHY 2054C/2049 Physics II	4	ETI 3671 Tech Economic Analysis	2
Summer			
		6/7 hrs	
		3/4	
CET/EET Elective		3	
ETI 4448 Applied Project Management		3	
Senior Year			
Fall	12 hrs	Spring	13 hrs
EET 4548 Power Systems	3	ETG 4950C Sr. Design Proj	3
EET 4158C Linear Int Cir	3	CET/EET Approved Elective	4
ETI 3116 App Eng Quality Assur	3	EET 4732C Feedback Control	3
CET/EET Approved Elective	3	ENC 3241 Writing Tech Pros	3

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)

AS to BSEET TRACK

Note: For detailed information about this program, see the AS to BS Program section.

UCF Degree Programs

ELEMENTARY EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor, 407-823-5791

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

Coordinator: Cyndee Hutchinson, 407-823-3532

E-mail: hutchins@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 four parts of the CLAST examination
 - Complete prerequisite courses
- #### Degree Requirements
- Students should consult with an advisor

1. UCF General Education Program

(36 hrs)

- A. Communication Foundations (9 hrs)
- ENC 1101 Composition I 3 hrs
 - ENC 1102 Composition II 3 hrs
 - SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundations (9 hrs)
- AMH 2010 U.S. History 1492-1877 3 hrs
 - AMH 2020 U.S. History 1877-Present 3 hrs
 - PHI 2010 Introduction to Philosophy 3 hrs
- C. Mathematical Foundations (6 hrs)
- MGF 1106 Finite Mathematics 3 hrs
 - Select one: 3 hrs
 - STA 1060C Basic Statistics using MS Excel *or*
 - STA 2014C Principles of Statistics
- D. Social Foundations (6 hrs)
- POS 2041 American National Government 3 hrs
 - PSY 2012 General Psychology 3 hrs
- E. Science Foundations (6 hrs)
- PSC 1121 Physical Science 3 hrs
 - Select one: 3 hrs
 - ANT 2511 The Human Species *or*
 - BSC 1005 Biological Principles

Note: See laboratory component under Section 2.

2. Common Program Prerequisites

(25 hrs)

- A. Communications (9 hrs)
- ENC 1101 Composition I GEP
 - ENC 1102 Composition II GEP
 - SPC 1600 Fundamentals of Oral Communication GEP
- B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy GEP
 - Select one: 3 hrs
 - ARH 2050 The History of Art I *or*
 - ARH 2051 The History of Art II *or*
 - MUL 2010 Enjoyment of Music *or*
 - THE 2000 Theatre Survey *or*
 - FIL 1001 Cinema Survey
- C. Mathematics (9 hrs)
- MAC 1105 College Algebra 3 hrs
 - MGF 1106 Finite Mathematics GEP
 - One of the following (per GEP) GEP
 - STA 1060C Basic Statistics using MS Excel *or*
 - STA 2014C Principles of Statistics
- D. Social Science/History (12 hrs)
- AMH 2010 U.S. History 1492-1877 GEP
 - AMH 2020 U.S. History 1877-Present GEP
 - POS 2041 American National Government GEP
 - PSY 2012 General Psychology GEP
- E. Science (9 hrs + lab)
- PSC 1121 Physical Science GEP
 - One of the following (per GEP) GEP
 - ANT 2511 The Human Species *or*
 - BSC 1005 Biological Principles
 - Select one: 3 hrs
 - AST 2002 Astronomy *or*
 - GEO 1200 Physical Geography *or*
 - GLY 1030 Geology and its Applications
 - Select one associated science lab: 1 hr
 - BSC 1005L Biological Principles Laboratory *or*
 - GEO 1200L Physical Geography Laboratory *or*
 - PSC 1121L Physical Science Laboratory
- F. Education Courses (9 hrs)
- EDF 2005 Introduction to Education 3 hrs
 - EDG 2701 Teaching Diverse Populations 3 hrs

- EME 2040 Technology for Educators 3 hrs
 - G. Diversity Courses GEP
 - H. Other Program Prerequisites (6 hrs)
- Students must select an additional six hours in courses in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

3. Education Preprofessional Requirements

(4 hrs)

- MAE 2801 Elementary School Mathematics 4 hrs

4. Recommended Sequence

- Semester I 15 hrs
- EDG 4323 Professional Teaching Practices (required prior to Internship I) 3 hrs

- EDF 4214 Classroom Learning Principles 3 hrs
- LAE 3414 Children's Literature 3 hrs
- RED 3012 Foundations of Reading (required prior to Internship I) 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL Students in Schools 3 hrs

Semester II (Internship Block)

12 hrs

- EDE 3942 Internship I 3 hrs
- Prior to Internship I, the student must have completed each of the prerequisite courses indicated above with a letter grade of "C-" (1.75) or better
- See additional requirements listed under College of Education, Office of Clinical Experiences
- RED 4519 Diagnostic & Corrective Reading Strategies (PR: RED 3012) 3 hrs
- MAE 4326 How Children Learn Math 3 hrs
- EEX 4003 Teaching/Management Tech Ex Ed Student in the Regular Setting 3 hrs

Summer

9 hrs

- EDF 4603 Analysis of Critical Issues in Education 3 hrs
- MUE 3210 Teaching Music in the Elementary School 3 hrs
- HLP 4722 Teaching Elementary Health and Physical Education 3 hrs

Note: RED 4519, MAE 4326, and EEX 4003 are taken concurrently with EDE 3942

Semester III

15 hrs

- SCE 3310 Teaching Science in the Elementary School 3 hrs
- SSE 3312 Teaching Social in the Elementary School 3 hrs
- LAE 4314 Teaching Language Arts in the Elementary School 3 hrs
- ARE 4313 Teaching Art in the Elementary School 3 hrs
- TSL 4141 Issues in Second Language Acquisition 3 hrs

Semester IV

12 hrs

- EDE 4943 Internship II 12 hrs
- All methods/specialization/foundations courses (*) must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II
- See additional requirements listed under College of Education, Office of Clinical Experiences
- 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

Note: Internship II includes a 3 SH module on assessment

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 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.

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
- 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 **128 hours**

ENGINEERING TECHNOLOGY - DESIGN CONCENTRATION (B.S.E.T.)

**College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207**

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

Coordinator: Lucy Morse 407-823-4742, Fax: 407-823-4746

Admission Requirements **none**

Degree Requirements

- Students should check with their ENT faculty 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.

1. UCF General Education Program (38 hrs)

A. Communication Foundations		9 hrs
1. ENC 1101, ENC 1102		
2. Prefer SPC 1016		
B. Cultural and Historical Foundations		9 hrs
C. Mathematical Foundations		
1. MAC 1105		3 hrs
2. CGS 1060C or STA 2014C		3 hrs
D. Social Foundations		6 hrs
E. Science Foundations		
1. PHY 2053C		4 hrs
2. BSC 1005&L, BSC 1050&L, or GEO 1200&L		4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)

MAC 2253 or	Calculus I	3/4 hrs
MAC 2311		
MAC 2254 or	Calculus II or equiv	3/4 hrs
MAC 2312		
PHY 2053C or	Physics I/Lab	GEP
PHY 2048/L		

3. Engineering Technology Core Requirements (23-24 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 or	Calculus I	CPP
MAC 2311		
MAP 3401	Problem Analysis or	3 hrs
MAC 2312	Calculus II	4 hrs
PHY 2053C	College Physics I	CPP
ETG 3541	Applied Mechanics	3 hrs
ETI 3651C	Computer Applications	3 hrs
ETI 3671	Technical Economic Analysis	2 hrs
ETI 3116	Applied Engrng Quality Assurance	3 hrs
ETI 4635	Technology Administration	3 hrs

4. Technical Specialization (61 hrs)

Lower Level Required and Elective Courses		(28 hrs)
EST 3543C	Programmable Logic Controllers	3 hrs
CHM 1032, 1032L	General Chemistry, Lab	4 hrs
COP 3223	C Language or equiv	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
EGN 1111C	Engr Computer Graphics	2 hrs
Approved Lower Level Technical Electives		12 hrs
Upper Level Required Courses		(21 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
ETI 4448	Applied Project Management	3 hrs

Upper Level Technical Elective (Select 5)		(12 hrs)
ETC 4206	Construction Estimating	3 hrs

ETC 4241C	Construction Materials & Methods	3 hrs
ETC 4242	Construction Contracts & Specs	3 hrs
ETC 4243	Building Systems	3 hrs
ETC 4414C	Applied Structural Design I	3 hrs
ETC 4415C	Applied Structural Design II	3 hrs
ETM 4331C	Applied Fluid Mechanics	4 hrs
ETM 4512C	Applied Design of Machine Elements	3 hrs
ETI 3418C	Computer Numerical Controls	3 hrs

5. Departmental Graduation Requirement (3 hrs)

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: **none**

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required **128 hours**

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: **none**

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Schedule for the Design Concentration

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 students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year			
Fall		13/14 hrs	Spring
MAC 2253/2311	Calculus I	3/4	MAP 3401
ETG 3541	Appl Mechanics	3	ETM 4220
ETI 3116	App Eng Qual Assur	3	ETG 3533C
PHY 2053C/2048	Physics I	4	ETD 3350C
			Applied CAD
			14 hrs
			3
			4
			4
			3

UCF Degree Programs

Summer	13 hrs
ETC 4414C App Struct Des I	3
ETM 4331C Appl Fluid Mech	4
ETI 3651C Computer Appl	3
ETI 4448 Applied Proj Mgmt	3

Senior Year

Fall	15 hrs	Spring	15 hrs
ETI 3421 Materials & Processes	3	EST 4502C Metro I Instr	4
ETC 4415C App Struct Des II	3	ETG 4950C Sr Design Proj	3
ETM 4512C App Des Mach Ele	3	ETC 4242 Contract & Spec	3
ETC 4241C Construction Meth	3	ETI 4635 Tech Admin	3
ENC 3241 Tech Report Writ	3	ETI 3671 Tech Econ Anal	2

ETI 3421	Materials & Processes	3 hrs
ETM 4220	Applied Energy Systems	4 hrs
ETI 4448	Applied Project Management	3 hrs

Upper Level Technical Elective (Select 5) (12 hrs)

ETI 3690	Technical Sales	3 hrs
ETI 4186	Applied Reliability	3 hrs
ETI 4205	Applied Logistics	3 hrs
ETI 4640	Process Planning & Work Measrmt	3 hrs
ETI 4661C	Applied Facilities Planning & Design	3 hrs
ETI 4700	Occupational Safety	3 hrs
ETM 4331C	Applied Fluid Mechanics	4 hrs
ETI 3418C	Computer Numerical Controls	3 hrs

ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207

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

Coordinator: Lucy Morse

407-823-4742, Fax: 407-823-4746

Admission Requirements **none**

Degree Requirements

- Students should check with their ENT faculty 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.

1. UCF General Education Program (38 hrs)

A. Communication Foundations	9 hrs
ENC 1101, ENC 1102	
Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
MAC 1105	3 hrs
CGS 1060C <i>or</i> STA 2014C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
PHY 2053C	4 hrs
BSC 1005&L, BSC 1050&L, <i>or</i> GEO 1200&L	4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)

MAC 2253 <i>or</i> Calculus I	3/4 hrs
MAC 2311	
MAC 2254 <i>or</i> Calculus II or equiv	3/4 hrs
MAC 2312	
PHY 2053C <i>or</i> Physics I/Lab	GEP
PHY 2048/L	

3. Engineering Technology Core Requirements (23-24 hrs)

ANT 2511, BSC 1005, BSC 1050, GEO 1200, GEO 2370, <i>or</i> 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 <i>or</i> Calculus I	CPP
MAC 2311	
MAP 3401 Problem Analysis or	3 hrs
MAC 2312 Calculus II	4 hrs
PHY 2053C College Physics I	CPP
ETG 3541 Applied Mechanics	4 hrs
ETI 3651C Computer Applications	3 hrs
ETI 3671 Technical Economic Analysis	2 hrs
ETI 3116 Applied Engineering Quality Assurance	3 hrs
ETI 4635 Technology Administration	3 hrs

4. Technical Specialization (61 hrs)

Lower Level Required and Elective Courses (28 hrs)	
EST 3543C Programmable Logic Controllers	3 hrs
CHM 1032, 1032L General Chemistry, Lab	4 hrs
COP 3223 C Language or equiv	3 hrs
EET 3085C Electricity and Electronics	4 hrs
EGN 1111C Engr Computer Graphics	2 hrs
Approved Lower Level Technical Electives	12 hrs
Upper Level Required Courses (21 hrs)	
EST 4502C Metrology & Instrumentation	4 hrs
ETD 3350C Applied CADD	3 hrs
ETG 3533C Applied Engrng Strength of Materials	4 hrs

5. Departmental Graduation Requirement (3 hrs)

ETG 4950C Senior Design Project	3 hrs
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A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: **none**

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required **128 hours**

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: **none**

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Operations Concentration

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 students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year		
Fall	13/14 hrs	Spring 13 hrs

MAC 2253/2311 Calculus I	3/4	MAP 3401 Problem Analysis	3
PHY 2053C/2048 Physics I	4	ETG 3541 Mechanics	3
ETI 3116 App Eng Qual Assur	3	ETM 4220 Energy Systems	4
ETI 4640 Proc Plan & Sch	3	ETI 4186 Appl Reliability	3
Summer	13 hrs		
ETI 4700 Occup Safety	3		
ETI 4635 Tech Admin	3		
ETM 4331C Appl Fluid Mech	4		
ETI 4448 Applied Proj Mgmt	3		
Senior Year			
Fall	14 hrs	Spring	14 hrs
ETI 3421 Matrils & Process	3	ENC 3241 Tech Report Writ	3
ETI 4205 App Logistics	3	ETG 4590 Sr Design Proj	3
ETD 3350C Appl CAD	3	EST 4502C Metro I Instr	4
ETI 3651C Computer Appl	3	ETG 3533C Eng Strength Mat'ls	4
ETI 3671 Tech Econ Anal	2		

Upper Level Required and Elective Courses		(21 hrs)
EST 4502C	Metrology & Instrumentation	4 hrs
ETD 3350C	Applied CADD	3 hrs
ETG 3533C	Applied Engineering Strength of Materials	4 hrs
ETM 4220	Applied Energy Systems	4 hrs
ETI 44382C	Launch Processing Technology	3 hrs
ETI 4836	Space Systems Technology	3 hrs
Upper Level Technical Electives (Select 4)		(12 hrs)
ETI 4837	Technology of Small Space Payloads	3 hrs
ETM 3XXX	Space Materials Technology	3 hrs
ETM 4838	Space Flight Dynamics Technology	3 hrs
ETI 4835	Rocket Propulsion Technology	3 hrs
ETI 4839	Space Electro-Optics Technology	3 hrs
ETI 4150	Spacecraft QA and Testing	3 hrs
ETI 4381	Ground System Design	3 hrs
ETM 4XXX	Space Biotechnology	3 hrs
ETM 4XXX	Space Power Systems	3 hrs

ENGINEERING TECHNOLOGY - SPACE SYSTEMS CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

Florida Space Institute

Kennedy Space Center, FL 32899

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

Coordinator: Dr. Nebil Misconi 407-823-4476 or 321-459-0199

Admission Requirements **none**

Degree Requirements

- Students should check with their ENT faculty 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.

1. UCF General Education Program (38 hrs)

A. Communication Foundations	9 hrs
ENC 1101, ENC 1102	
Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
MAC 1105	3 hrs
CGS 1060C, STA 2014C, or STA 1060C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
PHY 2053C or PHY 2048	4 hrs
BSC 1005&L, BSC 1050&L, or GEO 1200&L	4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)

MAC 2253 or Calculus I	3/4 hrs
MAC 2311	
MAC 2254 or MAC 2312 Calc II	3/4 hrs
PHY 2053C or Physics I/Lab	GEP
PHY 2048/L	

3. Engineering Technology Core Requirements (23 hrs)

AST 2002	Astronomy	3 hrs
ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253 or Calculus I	CPP	
MAC 2311		
MAP 3401	Problem Analysis or	CPP
MAC 2312	Calculus II	
PHY 2053C	College Physics I	CPP
ETG 3541	Applied Mechanics	3 hrs
ETI 3651C	Computer Applications	3 hrs
ETI 3671	Technical Economic Analysis	2 hrs
ETI 3116	Applied Engineering Quality Assurance	3 hrs
ETI 4635	Technology Administration	3 hrs

4. Technical Specialization (58 hrs)

Lower Level Required and Elective Courses		(25 hrs)
EST 3543C	Prog Logic Controllers	3 hrs
CHM 1032, 1032L	General Chemistry with Lab	4 hrs
CET 2364	Systems Appl. in C	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
EEN 1111C	Engr Computer Graphics	2 hrs
Approved Lower Level Technical Electives		9 hrs

5. Departmental Graduation Requirement (3 hrs)

ETG 4950C Senior Design Project 3 hrs
A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: **none**

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required **128 hours**

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: **none**

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Space Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their 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 students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

UCF Degree Programs

Junior Year			
Fall	15/16 hrs	Spring	14 hrs
MAC 2253/2311 Calculus I	3/4	MAP 3401 Problem Analysis	3
ETG 3541 Appl Mechanics	3	ETM 4220 Energy Systems	4
ETI 3116 App Eng Qual Assur	3	ETG 3533C Eng Strength of Mat	4
EST 3543C Prog Log Control	3	ETD 3350C Appl CAD	3
ETI 4836 Space Systems Tech	3		

Summer			
	8 hrs		
ENC 3241 Tech Report Writing	3		
ETI 3671 Tech Econ Analysis	2		
ETI 4837 Tech of Small Payloads	3		

Senior Year			
Fall	13 hrs	Spring	13 hrs
EET 3085C Elect & Electronics	4	EST 4502C Metro I Instr	4
ETI 4835 Rocket Prop Tech	3	ETG 4590C Sr Design Proj	3
ETI 4382C Launch Proc Tech	3	ETI 4838 Flight Dynamics	3
ETI 4635 Tech Admin	3	ETI 4839 Space Electro-Opt	3

ENGLISH - CREATIVE WRITING (B.A.)

College of Arts and Sciences
English Department, CNH 301,
<http://english.ucf.edu>
E-mail: english@ucf.edu
 P. Murphy, 407-823-2212

Admission Requirements **none**

- Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog
 - Students must earn at least a "C" (2.0) in each required course
 - Co-op or internship credit cannot be used in the major without prior approval from the department
 - Students should consult with a departmental advisor
 - Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
 - Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in English Degree: Additional Requirements (9 hrs)

- Application and admission through the English Honors Committee and the Honors College
- Fulfill University requirements for Honors in the Major
- Grade of "B" (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)

A. Communication Foundations	
Select SPC 1600 Fund of Oral Com	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites

ENC 1101*	Composition I	GEP
ENC 1102*	Composition II	GEP
*See Transfer Notes for possible substitutes		

3. Core Requirements (6 hrs)

CRW 3013	Creative Writing for English Majors
ENG 3014	Theory & Tech of Literary Study
This is a prerequisite for all 4000 level ENG, ENL, or LIT courses	

4. Restricted Electives (30 hrs)

Choose four of the following:		12 hrs
ENL 2012	English Literature I	
ENL 2021	English Literature II	
AML 3031	American Literature I	
AML 3051	American Literature II	
ENL 4311	Chaucer	
ENL 4333	Shakespeare	

ENL 4341	Milton and His Age	
or any approved literary history course with a prefix of AML, ENL, or LIT; at least one of which focuses entirely on early literature (pre-1865)		
Choose one of the following:		3 hrs
LIN 3010	Intro to Linguistics	
LIN 4100	History of the English Language	
LIN 4643	Cross Cultural Communication	
LIN 4680	Modern English Grammar	
ENC 3211	Theory and Practice of Tech Writing	
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	
Choose two of the following:		6 hrs
CRW 4122	Adv Fiction Writing Workshop	
CRW 4320	Adv Poetry Writing Workshop	
CRW 4224	Adv Creative Nonfiction Writing	
Choose one of the following:		3 hrs
CRW 3311	Structure of Verse	
CRW 3410	Writing Scripts	
CRW 3540	Literary Magazines	
CRW 4114	History of Prose Style	
or any 3000 or 4000 CRW course not used to fulfill another requirement		

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses
- Computer Competency met by completion of CRW 3013

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Three semesters or equivalent proficiency exam. 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.

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 hours**

Related Programs: Technical Writing, Literature

Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in 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.

ENGLISH - LITERATURE (B.A.)

College of Arts and Sciences
English Department, CNH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
 P. Murphy, 407-823-2212

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit is not accepted in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in English Degree:

Additional Requirements **(10 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 3 hrs
 Select SPC 1600 Fund of Oral Com
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 Select MGF 1106 Finite Mathematics
 (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

3. Core requirements **(15 hrs)**

Choose five literary history courses, two of which must focus entirely on early literature (pre-1865). **Note:** Each semester, additional courses may satisfy this requirement. Check with advisor for details.

- AML 3031 American Literature I 3 hrs
- AML 3051 American Literature II 3 hrs
- AML 3283 Contemp American Women's Fiction 3 hrs
- AML 3614 Topics in African American Literature 3 hrs
- AML 3615 Harlem, Haiti, and Havana 3 hrs
- AML 3640 Native American Literature 3 hrs
- AML 4101 American Novel 3 hrs
- AML 4153 American Poetry at Mid-Century 3 hrs
- AML 4261 Literature of the South 3 hrs
- AML 4265 Florida Writers 3 hrs
- AML 4321 Modern American Literature 3 hrs
- ENL 2012 English Literature I 3 hrs
- ENL 2021 English Literature II 3 hrs
- ENL 4101 English Novel 3 hrs
- ENL 4220 English Renaissance Poetry and Prose 3 hrs
- ENL 4230 Eighteenth Century Studies 3 hrs
- ENL 4240 English Romantic Writers 3 hrs
- ENL 4253 The Victorian Age: Poetry 3 hrs
- ENL 4262 Nineteenth Century British Prose 3 hrs
- ENL 4273 Modern British Literature 3 hrs
- LIT 3082 Continental European Fiction Since 1900 3 hrs
- LIT 3192 Caribbean Literature 3 hrs
- LIT 4043 Modern Drama as Literature 3 hrs
- LIT 4184 Irish Literature 3 hrs
- LIT 4303 Post-World War II Fiction 3 hrs
- LIT 4374 Literature of the Bible 3 hrs

4. Upper Division Restricted Electives **(21 hrs)**

ENG 3014 Theory & Tech of Literary Study 3 hrs
 (This is a prerequisite for all 4000 level AML, ENG, ENL, or LIT courses)

Choose one of the following gateway courses: 3 hrs

- CRW 3013 Creative Writing for English Majors
- ENC 3211 Theory & Practice of Tech Writing

Choose one single author or major author course 3 hrs

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

- ENL 4311 Chaucer
- ENL 4341 Milton
- ENL 4333 Shakespeare

Choose one linguistics or theory course: 3 hrs

- ENG 3010 Practical Criticism
- LIN 3010 Principles of Linguistics
- LIN 4100 History of the English Language
- LIN 4643 Cross Cultural Communication
- LIN 4680 Modern English Grammar
- LIT 4554 Advanced Feminist Theory

Choose three upper level courses: 9 hrs
 AML, ENL, or LIT prefix

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses.
- Computer Competency met by completion of ENG 3014.

6. Foreign Language Requirements **(0-8 hrs)**

Admission: Met by graduation requirement

Graduation: Three semesters or equivalent proficiency exam. With departmental approval, a multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation 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 hours**

Related Programs: Creative Writing, Technical Writing

Related Minors: Creative Writing, Linguistics, Literature, Technical Writing, Writing

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in Literature if taken prior to transferring to UCF:

- ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

UCF Degree Programs

ENGLISH - TECHNICAL WRITING (B.A.)

College of Arts and Sciences

English Department, CNH 301

<http://english.ucf.edu>

E-mail: english@ucf.edu

P. Murphy, 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 (10 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 | 9 hrs |
| Select SPC 1600 Fund of Oral Com | 3 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 6 hrs |
| Select MGF 1106 Finite Mathematics
(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

3. Core courses-Basic (15 hrs)

- | | | |
|--------------------------------|-------------------------------------|-------|
| ENC 3211 | Theory & Practice of Tech Writing | 3 hrs |
| Choose one of the following: | | |
| ENG 3014 | Theory & Tech of Literary Study | 3 hrs |
| CRW 3013 | Creative Writing for English Majors | 3 hrs |
| Choose three of the following: | | |
| ENL 2012 | English Literature I | 3 hrs |
| ENL 2021 | English Literature II | 3 hrs |
| AML 3031 | American Literature I | 3 hrs |
| AML 3051 | American Literature II | 3 hrs |

4. Core requirements-Advanced (24 hrs)

- | | | |
|----------|----------------------------------|-------|
| ENC 3311 | Advanced Expository Writing | 3 hrs |
| ENC 4293 | Technical Documentation I | 3 hrs |
| ENC 4294 | Technical Documentation II | 3 hrs |
| ENC 4295 | Technical Documentation III | 3 hrs |
| ENC 4215 | Techniques of Tech Publication | 3 hrs |
| ENC 4218 | Visual Elements in Documentation | 3 hrs |
| ENC 4280 | Technical Writing Style | 3 hrs |
| LIT 4433 | Technical and Sci Literature | 3 hrs |

5. Restricted Upper Division Electives (3 hrs)

- | | | |
|------------------------------|-----------------------------------|-------|
| Choose one of the following: | | |
| ENC 4414 | Studies in Hypertext | 3 hrs |
| ENC 4415 | Digital Rhetorics | 3 hrs |
| ENC 4265 | Writing for the Computer Industry | 3 hrs |
| Optional course | | |
| ENC 4941 | Tech Writing & Editing Internship | 3 hrs |

6. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses
- Computer Competency met by completion of ENC 4293

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Three semesters or equivalent proficiency exam. With departmental approval, a multicultural or related course 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 hours

Related Programs: Creative Writing, Literature

Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Acceptable Substitutes for common program prerequisites to the BA in Technical Writing if taken prior to transferring to UCF:

- ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor, 407-823-5791

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

Coordinator: Donna Camp

DBC, (386) 255-7423 ext 4072

E-mail: camp@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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements:

- Students should see an advisor

1. UCF General Education Program (36 hrs)

- | | | |
|------------------------------------|------------------------------------|-------|
| A. Communication Foundations | (9 hrs) | |
| ENC 1101 | Composition I | 3 hrs |
| ENC 1102 | Composition II | 3 hrs |
| SPC 1600 | Fundamentals of Oral Communication | 3 hrs |
| B. Cultural-Historical Foundations | (9 hrs) | |
| AMH 2010 | U.S. History 1492-1877 | 3 hrs |
| AMH 2020 | U.S. History 1877-Present | 3 hrs |
| PHI 2010 | Introduction to Philosophy | 3 hrs |
| C. Mathematical Foundations | (6 hrs) | |
| MGF 1106 | Finite Mathematics | 3 hrs |
| Select one: | | 3 hrs |
| STA 1060C | Basic Statistics using MS Excel | or |
| STA 2014C | Principles of Statistics | |
| D. Social Foundations | (6 hrs) | |
| POS 2041 | American National Government | 3 hrs |
| PSY 2012 | General Psychology | 3 hrs |
| E. Science Foundations | (6 hrs) | |

PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)

A. Communications (9 hrs)		
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities (6 hrs)		
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	
C. Mathematics (9 hrs)		
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		
STA 1060C	Basic Statistics using MS Excel <i>or</i>	GEP
STA 2014C	Principles of Statistics	GEP
D. Social Science/History (12 hrs)		
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science (9 hrs + lab)		
PSC 1121	Physical Science	GEP
One of the following (per GEP)		
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		
BSC 1005L	Biological Principles Laboratory <i>or</i>	1 hr
GEO 1200L	Physical Geography Laboratory <i>or</i>	
PSC 1121L	Physical Science Laboratory	
F. Education Courses (9 hrs)		
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		
H. Other Program Prerequisites (6 hrs)		
LIT 2110	World Literature I	3 hrs
ENL 2012	English Literature I to 1798	3 hrs

3. Specialization Requirements (24 hrs)

Specialization requirements total 30 hours, but LIT 2110 and ENL 2012 account for 6 hours.

LIT 2120	World Lit II	3 hrs
ENL 2021	Eng Lit II to 1950	3 hrs
AML 3031	American Lit I	3 hrs
AML 3051	American Lit II	3 hrs
CRW 3013	Intro Creative Writing	3 hrs
ENC 3311	Advanced Expository Writing	3 hrs
LIN 4680	Modern English Grammar	3 hrs
ENG 3014	Theories of Literature	3 hrs

4. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
TSL 4141	Issues in Second Language Acquisition	3 hrs

5. Program Core Requirements (13 hrs)

LAE 4464	Adolescent Lit	3 hrs
LAE 4361	Literacy Strategies for Mid/High Schools	3 hrs
LAE 4360	Eng Instructional Analysis	4 hrs
LAE 4342	Teaching Lang/Comp	3 hrs

6. Internship I (ESE 3940) (3 hrs)

- Prerequisites: EDG 4323, EDF 4214, LAE 4464, and LAE 4361
- Corequisites: LAE 4360 and LAE 4342
- See additional requirements under College of Education, Office

of Clinical Experiences

7. Internship II (ESE 4943) (12 hrs)

- All methods courses and at least 80% of all specialization courses must be completed before registering for Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- 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

Note: Internship II includes a 3 SH module on assessment

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 Semester Hours Required 128 hours

ENVIRONMENTAL ENGINEERING (B.S.Env.E.)

**College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE),**

ENG2 211, 407-823-2841, Fax: 407-823-3315,

<http://www.cee.engr.ucf.edu>

Manoj Chopra, E-Mail: chopra@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

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 (38 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations	9 hrs
1. Take ENC 1101	
2. Take ENC 1102	
3. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs

UCF Degree Programs

- C. Mathematical Foundations 7 hrs
 1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
 2. Take STA 3032 (3 hrs).
Note: Calculus II is the prerequisite for this course.
- D. Social Foundations 6 hrs
 1. Take ECO 2013 *or* ECO 2023.
 2. Take ANT 2000, PSY 2012, *or* SYG 2000.
- E. Science Foundations 7 hrs
 1. Take PHY 2048/48L.
 2. Take one from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050).

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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
MAC 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

3. Courses Required for the Major (60 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.

EEN 1006C	Intro to the Engineering Profession	1 hr
EEN 1007C	Engineering Concepts & Methods	1 hr
CHM 2046/46L	Chemistry Fundamentals II w/Lab	4 hrs
	Earth Science	GEP
	Biological Science	3 hrs
EEN 3310	Engineering Analysis - Statics	3 hrs
EEN 3321	Engineering Analysis - Dynamics	3 hrs
EEN 3331	Mechanics of Materials	3 hrs
EEN 3343	Thermodynamics	3 hrs
EEN 3613	Engineering Economic Analysis	2 hrs
EEN 3373	Principles of Electrical Engrng	3 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
ENV 3001	Intro to Environmental Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
CWR 3201	Engineering Fluid Mechanics	3 hrs
CWR 4101C	Hydrology	3 hrs
CWR 4203C	Hydraulics	3 hrs
EES 4111C	Biological Process Control	3 hrs
EES 4202C	Chemical Process Control	3 hrs
ENV 4120	Air Pollution Control	3 hrs
ENV 4341	Solid Waste Management	3 hrs
ENV 4561	Environmental Engrng-Process Design	4 hrs
ENV 4563	Environmental Control Systems	3 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 (5 hrs)

Technical electives are available in the BSEnvE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- Approved EnvE Design Course I 3 hrs
- Approved EnvE Design Course II 3 hrs
- Earn a minimum graduating GPA of 2.250 in each of the following two areas: (a) the Engineering Core and (b) the EnvE Option, which includes the Major Courses from 3. above, the technical electives from 4., and the Approved EnvE Design Courses.
- EnvE students must take the Engineering Intern 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.

Related Minors: Chemistry, Environmental Studies, Mathematics.

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Environmental Engineering - 128 semester hours required

FIRST YEAR

Fall	14 hrs¹	Spring	15 hrs¹
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
MAC 2281 Calc Sci & Eng I	4	MAC 2282 Calc Sci & Eng II	4
*ECO 2013 Macroeconomics <i>or</i>	3	*PHY 2048/L Phys Engr I w/lab	4
ECO 2023 Microeconomics		*Earth Science	3
*SPC 1016 Tech Presentations	3	EEN 1007C Eng Conc & Meth	1
EEN 1006C Intro to Engr	1		

SECOND YEAR

Fall	16 hrs¹	Spring	17 hrs¹
MAC 2283 Calc Sci & Eng 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
EEN 3310 Engr Anal-Statics	3	*HUM/AMH/EUH II	3
EEN 3613 Engrng Econ Anal	2	EEN 3321 Engr Anal-Dynamics	3

Summer

	9 hrs¹
*Biological Science	3
EEN 3343 Thermodynamics	3
ENV 3001 Intro to Environ Eng	3

THIRD YEAR

Fall	15 hrs	Spring	15 hrs¹
CWR 3201 Engr Fluid Mech	3	CWR 4101C Hydrology	3
*ANT/PSY/SYG	3	CWR 4203C Hydraulics	3
EEN 3331 Mech of Materials	3	ENV 4120 Air Pollution Contrl	3
EEN 3373 Prin Elec Eng	3	*Cultural/Historical Elective	3
STA 3032 Probly/Stats for Eng	3	ENV 4341 Solid/Haz Waste	3

FOURTH YEAR

Fall	13 hrs	Spring	14 hrs
ENV 4563 Envrnmntl Cont Sys	3	Approved Proj Design Course	3
ENV 4561 Process Design	4	Approved Proj Design Course	3
EES 4202C Chmcl Proc Control	3	EES 4111C Biolocl Proc Cntrl	3
CCE 4003 Intro to Constr Indus	3	Technical Elective	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 this catalog for further information.

EXCEPTIONAL STUDENT EDUCATION (B.S.)

College of Education

Department of Child, Family and Community Sciences

ED building, second floor, 407-823-2598

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

Chair: Wilfred Wienke, 407-823-2598

E-mail: wwienke@mail.ucf.edu

Program Coordinator: Lee Cross, 407-823-5477

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 four parts of the CLAST examination (no alternatives are accepted)
- Complete common program prerequisite courses

Degree Requirements:

- Students should consult with an advisor
- Students must earn at least a "C-" (1.75) in each required Exceptional Education course
- The courses designated in 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)
ENC 1101 Composition I	3 hrs
ENC 1102 Composition II	3 hrs
SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations*	(9 hrs)
AMH 2010 U.S. History 1492-1877	3 hrs
AMH 2020 U.S. History 1877-Present	3 hrs
PHI 2010 Introduction to Philosophy	3 hrs
C. Mathematical Foundations*	(6 hrs)
MGF 1106 Finite Mathematics	3 hrs
Select one:	3 hrs
STA 1060C Basic Statistics using MS Excel <i>or</i>	
STA 2014C Principles of Statistics	
D. Social Foundations	(6 hrs)
POS 2041 American National Government	3 hrs
PSY 2012 General Psychology	3 hrs
E. Science Foundations	(6 hrs)
PSC 1121 Physical Science	3 hrs
Select one:	3 hrs
ANT 2511 The Human Species <i>or</i>	
BSC 1005 Biological Principles	

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)

A. Communications	(9 hrs)
ENC 1101 Composition I	GEP
ENC 1102 Composition II	GEP
SPC 1600 Fundamentals of Oral Communication	GEP
B. Humanities	(6 hrs)
PHI 2010 Introduction to Philosophy	GEP
Select one:	3 hrs
ARH 2050 The History of Art I <i>or</i>	
ARH 2051 The History of Art II <i>or</i>	
MUL 2010 Enjoyment of Music <i>or</i>	
THE 2000 Theatre Survey <i>or</i>	
FIL 1001 Cinema Survey	
C. Mathematics	(9 hrs)
MAC 1105 College Algebra	3 hrs
MGF 1106 Finite Mathematics	GEP
One of the following (per GEP)	GEP
STA 1060C Basic Statistics using MS Excel <i>or</i>	

STA 2014C Principles of Statistics	(12 hrs)
D. Social Science/History	(12 hrs)
AMH 2010 U.S. History 1492-1877	GEP
AMH 2020 U.S. History 1877-Present	GEP
POS 2041 American National Government	GEP
PSY 2012 General Psychology	GEP
E. Science	(9 hrs + lab)
PSC 1121 Physical Science	GEP
One of the following (per GEP)	GEP
ANT 2511 The Human Species <i>or</i>	
BSC 1005 Biological Principles	
Select one:	3 hrs
AST 2002 Astronomy <i>or</i>	
GEO 1200 Physical Geography <i>or</i>	
GLY 1030 Geology and its Applications	
Select one associated science lab:	1 hr
BSC 1005L Biological Principles Laboratory <i>or</i>	
GEO 1200L Physical Geography Laboratory <i>or</i>	
PSC 1121L Physical Science Laboratory	
F. Education Common Program Prerequisites	(9 hrs)
EDF 2005 Introduction to Education	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs
EME 2040 Technology for Educators	3 hrs
G. Diversity Courses	GEP
H. Other Program Prerequisites	(6 hrs)
Students must select an additional six hours in courses in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.	

3. Exceptional Education (7 hrs)

Preprofessional Requirements	
EEX 2010 Orientation to Special Education	3 hrs
MAE 2801 Elementary School Mathematics	4 hrs

4. Education Core Requirements: (9 hrs)

EDG 4323 Professional Teaching Practices	3 hrs
EDF 4603 Analysis of Critical Issues in Education	3 hrs
EDF 4214 Classroom Learning Principles	3 hrs

Internship I Prerequisites:

The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.

EDG 4323 Professional Teaching Practices	3 hrs
RED 3012 Basic Foundations of Reading	3 hrs
EEX 2010 Introduction to Special Education	3 hrs
EEX 3241 Methods of Academic Skills Ex Ed	3 hrs

5. Specialization Core Requirements (33 hrs)

RED 3012 Basic Foundations of Reading	3 hrs
RED 4519 Diagnostic and Corrective Reading	3 hrs
RED 4043 Content Reading K-12	3 hrs
LAE 4314 Language Arts in Elem Schools	3 hrs
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools	3 hrs
TSL 4141 Issues in Second Language Acquisition	3 hrs
EEX 3241 Methods of Academic Skills for Ex Students	3 hrs
EEX 3221 Assessment of Ex Students	3 hrs
EEX 4601 Intro to Behavior Management	3 hrs
EEX 3243 Techniques for Ex Adolescents and Adults	3 hrs
EEX 4753 Parent Professional Collaboration	3 hrs

6. Specialization (5 hrs)

Special Education	(5 hrs)
EEX 4054 Applications and Theories for Students with Special Needs	2 hrs
EEX 4066 Curriculum and Instructional Strategies and Curriculum for Students with Special Needs	3 hrs

Internship Requirements

EEX 3864 Internship I	3 hrs
EEX 4943 Internship II	9 hrs

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.)

UCF Degree Programs

8. 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.

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
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Semester Hours Required 127 hours

FILM - B.F.A. TRACK

College of Arts and Sciences

Department of Film, COM 121, 407-823-3456

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

E-mail: film@ucf.edu

Chair: Sterling Van Wagenen

Admission Requirements

- The Film major is a limited access program.
- Attain an overall minimum 2.5 GPA before applying
- Entrance into most Film Classes is restricted to Majors. Exceptions must be approved by Department Chair.
- Applications to become a Film major are required by January 6 for admission to the subsequent Fall term
- A portfolio review is required for entry into the Film major. Contact the Film Department for details.

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.
- Continuation in the Film Program requires a positive annual evaluation.
- A maximum of three 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.
- All students are required to pay a nominal fee for equipment insurance.
- Departmental Residency Requirement consists of at least 63 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.
- Due to the conservative nature, the 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 designed in 1 (General 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 one 2 semester sequence 6 hrs
 Select FIL 2400 History of Motion Pictures *or* 3 hrs
 Select FIL 1001 Cinema Survey
- C. Mathematical Foundations
 Select MGF 1106 Finite Mathematics 3 hrs
 (may substitute a higher level math)
 Prefer CGS 1060C Intro to Computer Sci *or* 3 hrs
 STA 1060C Statistics Using Excel
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

- FIL 2400* History of the Motion Pictures GEP
 FIL 1001 Cinema Survey
 FIL 1007 Foundations of Story 3 hrs
 *See transfer notes for possible substitutions

3. Lower Level Core Requirements (18 hrs)

- FIL 2107 Script Analysis 3 hrs
 FIL 1008 Cinematic Expression/Aesthetic 3 hrs
 FIL 2274C Editing I 3 hrs
 FIL 2220 Directing I 3 hrs
 FIL 2200 Cinematography I 3 hrs
 FIL 2930 Film Acting 3 hrs

4. Upper Level Core Requirements (45 hrs)

- FIL 3922 Film Colloquium 6 hrs
 six semesters of Colloquium required @ 1 hr each
- FIL 3201C Intro to Film Production 3 hrs
 FIL 3401 Film History I 3 hrs
 FIL 3402 Film History II 3 hrs
 FIL 3XXX Production Sound
 FIL 4208 Directing II 3 hrs
 FIL 3503C Film Theory and Criticism I 3 hrs
 FIL 3124 Short Script I 3 hrs
 FIL 4604 The Film Producer 3 hrs
 FIL 4203C Capstone I 3 hrs
 FIL 4211C Capstone II 3 hrs
 FIL 3625 Interactive Entertainment 3 hrs
- Select one course:
 FIL 3125 Short Script II *or* 3 hrs
 FIL 4111C Feature/TV Writing 3 hrs

5. Upper Level Restricted Electives (18 hrs)

Select six courses from the following. Must complete core requirements before taking these courses. A maximum of six hours of Independent Study may be substituted with advisor's prior approval.

- **Production/Direction**
 - FIL 4223 Design for Film 3 hrs
 - FIL 4210C Cinematography II 3 hrs
 - FIL 4212 Sound Design I 3 hrs
 - FIL 4XXX Sound Design II 3 hrs
 - FIL 4607 Film Production Management 3 hrs
 - FIL 4213C Editing II 3 hrs
 - FIL 3300C Film Documentary 3 hrs
 - FIL 4228 Directing III 3 hrs
- **Screen Writing**
 - FIL 4103 Adaptation 3 hrs
 - FIL 4112C Feature/TV Writing II 3 hrs
 - FIL 4113C Interactive Writing I 3 hrs
 - FIL 4114C Interactive Writing II 3 hrs
 - FIL 4504C Genre Writing 3 hrs
- **Cinema Studies**
 - FIL 3520 Italian Film 3 hrs
 - FIL 3521 French Film 3 hrs
 - FIL 3522 German Film 3 hrs
 - FIL 3XXX American Cinema 3 hrs
 - FIL 3412 Black Cinema 3 hrs
 - FIL 3309 Women in Film 3 hrs
 - FIL 3507 Film Theory and Criticism II 3 hrs
 - FIL 3XXX Black Images in Film 3 hrs
- **Digital Cinema**
 - ART 2820 Art as Interface 3 hrs
 - ART 3618C Post Production Design 3 hrs
 - FIL 3624 Converging Media 3 hrs
 - IDS 3XXX Digital Imagery 3 hrs
 - IDS 3701C Internet Software Design 3 hrs
 - IDS 4681 Modeling for Realtime Graphics 3 hrs
 - MUC 3311 MIDI Sequencing I 3 hrs
 - COP 3502C Computer Science I 3 hrs
 - ENC 4415 Digital Rhetoric & Modern Dialectic 3 hrs

6. Departmental Exit Requirements

- A student must maintain an overall average of "B" (3.0) or better in major courses.
- Computer Competency met by Computer Science Courses.
- Department of Film requires taking an exit examination.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: One year college level or equivalent proficiency exam.

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 hours

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 1001 may substitute FIL 2400
- FIL 1007 may use any introductory course. However, FIL 1007 is a prerequisite for all major courses and must be taken.

FILM - CINEMA STUDIES TRACK (B.A.)

College of Arts and Sciences

School of Film and Digital Media, COM 121, 407-823-3456

<http://www.cas.ucf.edu/film>

E-mail: film@ucf.edu

Director: Sterling Van Wagenen

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
 - All students are required to pay a nominal fee for equipment insurance
- Co-op or internship credit cannot be used in this major
- Students must consult with a departmental advisor
- Departmental Residency Requirement consists of at least 60 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department Film program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - Prefer CGS 1060C Intro to Computer Sci or STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (6 hrs)

- FIL 2400* History of the Motion Pictures or 3 hrs
- FIL 1001 Cinema Survey
- FIL 1007* Foundations of Story 3 hrs

*see Transfer Notes for possible substitutes

3. Core Requirements (48 hrs)

- FIL 2107 Script Analysis 3 hrs
- FIL 2201 Foundations of Production 3 hrs
- FIL 3124 Short Script or FIL 3102 3 hrs
- FIL 3006 Art of the Cinema 3 hrs
- FIL 3252C Cinematic Expression/Aesthetics 3 hrs
- FIL 3300C Film Documentary 3 hrs
- FIL 3503C Film Theory and Criticism I 3 hrs
- FIL 3504C Film Theory and Criticism II 3 hrs
- FIL 3401 Film History I 3 hrs
- FIL 3402 Film History II 3 hrs
- FIL 3XXX American Cinema 3 hrs
- FIL 33510 World Cinema Traditions 3 hrs
- FIL 3XXX Cinema Director 3 hrs
- FIL 4XXX Genre Aesthetics 3 hrs
- FIL 4XXX Cinema Criticism (writing) 3 hrs
- FIL 4604 The Film Producer 3 hrs

4. Restricted Upper Division Electives (12 hrs)

Select from the following upper level FIL courses:

- FIL 3520 Italian Film
 - FIL 3521 French Film
 - FIL 3522 German Film
 - FIL 3412 Black Cinema
 - FIL 3309 Women in Film
 - FIL 4906 Independent Study
 - FIL 3930 Blacks in Film
 - FIL 3410 History of Animated Films
 - FIL 3XXX International Cinema
 - FIL 3625 Interactive Entertainment
 - FIL 3624 Converging Media
 - FIL 5609 Film and Internet Business
- (a maximum of 6 hours Independent Study may be used)

5. Required Minor (18 hrs minimum)

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 Computer Science Competency Courses.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: One year college level or equivalent proficiency exam.

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 hours

Related Programs: Animation, Art, Creative Writing, Film, Music, Theatre, Radio/TV

Related Minors: Art, Cinema Studies, Creative Writing, Music, Theatre

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Acceptable Substitutes for common program prerequisites:

- FIL 1001*: may substitute FIL 2400
- FIL 1007*: may use any introductory course. However, FIL 1007 is a prerequisite for all Cinema Studies courses and must be taken.

UCF Degree Programs

FILM-WORLD CINEMA TRACK (B.A.)

College of Arts and Sciences

Department of Film, COM 121, 407-823-3456

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

E-mail: film@ucf.edu

Chair: Sterling Van Wagenen

Admission Requirements

- The Film - World Cinemas track is a limited access program.
- Attain an overall minimum 2.5 GPA before applying.
- Students should apply to become Film majors only after completing all requirements for admission to the University.
- A portfolio and an interview are required for entry into the Film World Cinemas track.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of "B" (3.0) or better in courses within the major.
- A maximum of three credit hours on internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- 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 Film Department.

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select one 2-semester sequence	6 hrs
Select FIL 2400 History of Motion Pictures	3 hrs
C. Mathematical Foundations	
Select MGF 1106 Finite Mathematics (May substitute a higher level math)	3 hrs
Prefer CGS 1060C Intro to Computer Sci <i>or</i> STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Requirements (3 hrs)

FIL 2400 History of Motion Pictures	GEP	3 hrs
FIL 2107 Script Analysis		3 hrs

3. Lower level Core Requirements (18 hrs)

FIL 1007	Foundations of Story	3 hrs
FIL 1008	Cinematic Expression/Aesthetic	3 hrs
FIL 2107	Script Analysis	3 hrs
FIL 2201	Foundations of Film Production	3 hrs
FIL 2XXX	Documentary Vision	3 hrs
FIL 2XXX	Pre-production & Project Development	3 hrs
FIL 2XXX	Documentary Production	3 hrs

4. Upper Level Core Requirements (39 hrs)

FIL 3510	World Cinema Traditions	3 hrs
FIL 3922	Film Colloquium	6 hrs

(Six semesters of colloquium required @ 1 hr each)

FIL XXXX	Film Marketing, Distribution & Exhibition	3 hrs
FIL 3401	Film History I	3 hrs
FIL 3402	Film History II	3 hrs
FIL 3503C	Film Theory and Criticism I	3 hrs
F11 3504	Film Theory and Criticism II	3 hrs
FIL 4604	The Film Producer	3 hrs
FIL 3XXX	Docudrama	3 hrs
FIL 4203C	Capstone	3 hrs
FIL 4211C	Capstone	3 hrs
FIL 4XXX	Research Methods Film Digital/Media	3 hrs

5. Upper Level Restricted Electives (24 hrs)

FIL 4XXX	Documentary Workshop I	3 hrs
FIL 4XXX	Documentary Workshop II	3 hrs
FIL 4XXX	Documentary Field Production	6 hrs
FIL 4XXX	Documentary Media New Applications	3 hrs
FIL 4XXX	Image/Text Culture	3 hrs

FIL 4XXX	Cinemas of African Diaspora	3 hrs
FIL 4607	Film Production Management	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 FIL 4XXX Documentary Media New Applications
- Department of Film requires a passing grade on an exit examination.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: One year college level or equivalent proficiency exam.

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).

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

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.

FINANCE (B.S.B.A.)

College of Business Administration

BA 240, 407-823-2184

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

Admissions Requirements

- Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100C Comp 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

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.

3. Required for All Business Majors (30 hrs)

Common Body of Knowledge		
First Semester in the College of Business Administration:		
GEB 3031	Cornerstone	6 hrs
GEB 3356	Introduction to International Business	3 hrs
First or subsequent semesters depending on major:		
BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs

4. Special College and/or Department Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- The Finance Major Curriculum consists of 27 semester hours in addition to FIN 3403. Students are required to earn a grade of "C" (2.0) or better in FIN 3403 and all other classes taken toward the major and to have a 2.0 overall average.
- FIN 3403 Business Finance, is prerequisite to all finance courses except FIN 2104, REE 3043, & REE 3433.
- 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 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 take 60 credit hours in courses outside the College of Business.

5. Required Courses

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 4514	Portfolio Analysis and Management	3 hrs
FIN 4521C	Applied Portfolio Management I	3 hrs
FIN 4YYY	Applied Portfolio Management II	3 hrs
FIN 4533	Speculative Financial Markets	3 hrs
FIN 4604	International Financial Management	3 hrs
FIN 4424	Adv Topics in Financial Management	3 hrs
REE 4204	Real Estate Finance	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs

6. Restricted Electives

Select three of the following:*

ACG 3131	Financial Accounting Concepts	3 hrs
ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3361	Intermediate Managerial Accounting	3 hrs
ACG 4401	Accounting Information Systems	3 hrs
ECO 4412	Economic Statistics & Econometrics	3 hrs
ECP 4403	Bus, Government, & Industrial Orgs	3 hrs
ECP 4603	Urban & Regional Economic Problems	3 hrs
ECP 4703	Managerial Economics	3 hrs
FIN 3470	Financial Statement Analysis	3 hrs
FIN 4313	Management of Financial Institutions	3 hrs
FIN 4324	Commercial Bank Management	3 hrs
FIN 4424	Adv Topics in Financial Management	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4533	Speculative Financial Markets	3 hrs
FIN 4604	International Financial Management	3 hrs
FIN 4730	Senior Financial Consulting I	3 hrs
FIN 4731	Senior Financial Consulting II	3 hrs
FIN 4906	Independent Study	3 hrs
FIN 4941	Internship	3 hrs
MAR 3391	Professional Selling	3 hrs
REE 3043	Fundamentals of Real Estate	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs
REE 4103	Real Estate Appraisal	3 hrs

REE 4204	Real Estate Finance	3 hrs
REE 3433	Real Estate Law	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

*No class may be used more than once

7. Finance Track: International Business Required Courses*

FIN 3303	Financial Markets	9 hrs
FIN 3414	Intermediate Corporate Finance	
FIN 3504	Investment Analysis	

Required International Courses**

ACG 4252	International Accounting	9-15 hrs
ECO 4701	The Global Economy	
FIN 4604	International Financial Management	
MAN 4600	International Management	
MAR 4156	International Marketing	

Electives***

FIN 4313	Management of Financial Institutions	3-9 hrs
FIN 4324	Commercial Bank Management	
FIN 4424	Advanced Topics in Financial Management	
FIN 4453	Financial Models	
FIN 4514	Portfolio Analysis and Management	
REE 4303	Real Estate Investment Analysis	
GEB 4358	International Negotiations and Transactions	
GEB 4363	Export and Import Management	

* Required for BSBA-FIN-IB track

** Required international + electives must add up to 18 hours

*** Approved internship or independent study may be used for up to three credit hours.

- Note: the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

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***

As necessary to result in 120 total credit hours

Total Semester Hours Required 120 hours

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

UCF Degree Programs

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 or sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - FINANCE

Freshman			
Fall	15 hrs	Spring	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100C*	3

Must complete nine hours in a summer semester

Sophomore			
Fall	15 hrs	Spring	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3

Junior			
Fall	15 hrs	Spring	15 hrs
**GEB 3031	6	FIN 3303	3
GEB 3356	3	FIN 3414	3
MAR 3023	3	ECO 3411	3
FIN 3403	3	MAN 3025	3
		BUL 3130	3

**Pass Computer Competency Exam in same term Cornerstone completed

Senior			
Fall	15 hrs	Spring	15 hrs
FIN 3504	3	MAN 4720	3
ISM 3011	3	***Elective	3
FIN Elective	3	FIN 4453	3
FIN Elective	3	FIN Elective	3
FIN Elective	3	FIN Elective	3

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

FOREIGN LANGUAGE COMBINATION (B.A.)

College of Arts and Sciences

Department of Foreign Languages & Literatures, CNH 523

<http://pegasus.cc.ucf.edu/~forlang>

E-mail: foreignlanguage@ucf.edu

C. E. Stebbins, 407-823-2472

Admission Requirements none

Placement in Language courses

- Placement in Foreign 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 Foreign 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 Foreign Languages and Literatures.

- Language credit by exam will not be given in courses lower in level than those in which studied 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	3 hrs
(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 (0-12 hrs)

Completion of Intermediate level of proficiency.

3. Core requirements-first language (24 hrs)

(French, German or Spanish)		
Composition (select one)		3 hrs
SPN 3420*	Spanish Composition	
FRE 3420*	French Composition	
FRE 4422*	Advanced French Composition	
GER 3420*	German Composition	
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.

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	
Linguistics (select one)		3 hrs
FRE 4780	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	
Restricted Electives in the first language (chosen with departmental advisor)		9 hrs

4. Core requirements-second language (15 hrs)

(French, German, Spanish, or Italian)		
Composition (select one)		3 hrs
SPN 3420, FRE 3420, GER 3420, ITA 3420		
Advanced Oral Communication (select one)		3 hrs
SPN 3760, FRE 3760, GER 3760, or ITA 3760		
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 Foreign Language courses
- Students are required to satisfactorily complete a departmental exit exam
- 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 hours**

Related Programs: French, Spanish

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian 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.

FOREIGN LANGUAGE EDUCATION- FRENCH (B.S.)

College of Education

Department of Teaching and Learning Principles

407-823-5791

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

Coordinator: Karen Verkler, 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 on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- Present an overall GPA of 2.5
- Meet any special departmental requirements

Degree Requirements:

- Students should see an advisor

1. UCF General Education Program

(36 hrs)

- | | | |
|------------------------------------|---|---------|
| A. Communication Foundations | | (9 hrs) |
| ENC 1101 | Composition I | 3 hrs |
| ENC 1102 | Composition II | 3 hrs |
| SPC 1600 | Fundamentals of Oral Communication | 3 hrs |
| B. Cultural-Historical Foundations | | (9 hrs) |
| AMH 2010 | U.S. History 1492-1877 | 3 hrs |
| AMH 2020 | U.S. History 1877-Present | 3 hrs |
| PHI 2010 | Introduction to Philosophy | 3 hrs |
| C. Mathematical Foundations | | (6 hrs) |
| MGF 1106 | Finite Mathematics | 3 hrs |
| Select one: | | 3 hrs |
| STA 1060C | Basic Statistics using MS Excel <i>or</i> | |
| STA 2014C | Principles of Statistics | 3 hrs |
| D. Social Foundations | | (6 hrs) |
| POS 2041 | American National Government | 3 hrs |
| PSY 2012 | General Psychology | 3 hrs |
| E. Science Foundations | | (6 hrs) |
| PSC 1121 | Physical Science | 3 hrs |
| Select one: | | 3 hrs |
| ANT 2511 | The Human Species <i>or</i> | |
| BSC 1005 | Biological Principles | |

Note: See laboratory component under Section 2.

2. Common Program Prerequisites

(31 hrs)

- | | | |
|-------------------|------------------------------------|---------|
| A. Communications | | (9 hrs) |
| ENC 1101 | Composition I | GEP |
| ENC 1102 | Composition II | GEP |
| SPC 1600 | Fundamentals of Oral Communication | GEP |
| B. Humanities | | (6 hrs) |
| PHI 2010 | Introduction to Philosophy | GEP |
| Select one: | | 3 hrs |
| ARH 2050 | The History of Art I <i>or</i> | |
| ARH 2051 | The History of Art II <i>or</i> | |
| MUL 2010 | Enjoyment of Music <i>or</i> | |
| THE 2000 | Theatre Survey <i>or</i> | |

- | | | |
|--|--|---------------|
| FIL 1001 | Cinema Survey | (9 hrs) |
| C. Mathematics | | 3 hrs |
| MAC 1105 | College Algebra | GEP |
| MGF 1106 | Finite Mathematics | GEP |
| One of the following (per GEP) | | |
| STA 1060C | Basic Statistics using MS Excel <i>or</i> | |
| STA 2014C | Principles of Statistics | |
| D. Social Science/History | | (12 hrs) |
| AMH 2010 | U.S. History 1492-1877 | GEP |
| AMH 2020 | U.S. History 1877-Present | GEP |
| POS 2041 | American National Government | GEP |
| PSY 2012 | General Psychology | GEP |
| E. Science | | (9 hrs + lab) |
| PSC 1121 | Physical Science | GEP |
| One of the following (per GEP) | | GEP |
| ANT 2511 | The Human Species <i>or</i> | |
| BSC 1005 | Biological Principles | |
| Select one: | | 3 hrs |
| AST 2002 | Astronomy <i>or</i> | |
| GEO 1200 | Physical Geography <i>or</i> | |
| GLY 1030 | Geology and its Applications | |
| Select one associated science lab: | | 1 hr |
| BSC 1005L | Biological Principles Laboratory <i>or</i> | |
| GEO 1200L | Physical Geography Laboratory <i>or</i> | |
| PSC 1121L | Physical Science Laboratory | |
| F. Education Courses | | (9 hrs) |
| EDF 2005 | Introduction to Education | 3 hrs |
| EDG 2701 | Teaching Diverse Populations | 3 hrs |
| EME 2040 | Technology for Educators | 3 hrs |
| G. Diversity Courses | | GEP |
| H. Other Program Prerequisites | | (12 hrs) |
| A total of 12 hours of courses in elementary and intermediate grammar, composition, and advanced conversation, and culture and civilization in French. | | |
| FRE 2200 | Intermediate French Lang and Civ I | 3 hrs |
| FRE 2201 | Intermediate French Lang and Civ II | 3 hrs |
| FRE 3760 | Advanced French Oral Communication | 3 hrs |
| FRE 3300 | French Grammar | 3 hrs |

Note: FRE 2270 Intermediate French Study Abroad (8 hrs) may be taken in place of FRE 2200 and FRE 2201:

3. Education Core Requirements

(15 hrs)

- | | | |
|----------|--|-------|
| EDG 4323 | Professional Teaching Practices | 3 hrs |
| EDF 4603 | Analysis of Critical Issues in Education | 3 hrs |
| EDF 4214 | Classroom Learning Principles | 3 hrs |
| TSL 4080 | Theory and Practice of Teaching ESOL Students in Schools | 3 hrs |
| RED 4043 | Content Reading K-12 | 3 hrs |

4. Internship I (ESE 3940)

(3 hrs)

- EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I
- See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements

(18 hrs)

- | | | |
|----------|---------------------------------------|-------|
| FLE 4333 | For Lang Tch in the Secondary School | 3 hrs |
| FLE 4314 | For Lang Tch in the Elementary School | 3 hrs |
| FRE 4780 | French Phonetics and Diction | 3 hrs |
| FRE 3420 | French Composition | 3 hrs |
| FRW 3100 | Survey of French Literature I | 3 hrs |
| FRW 3101 | Survey of French Literature II | 3 hrs |

6. Upper Division Restricted Electives

(6 hrs)

Select two upper division (3000 or 4000 level) courses in French with advisor's approval

7. Other Cognate Requirements

(3 hrs)

- Select one of the following:
- | | | |
|----------|-------------------------------------|-------|
| LIN 3010 | Principles of Linguistics <i>or</i> | 3 hrs |
| LIN 4643 | Cross-Cultural Communication | |

8. Internship II (ESE 4943)

(12 hrs)

- At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- 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 6A-5.065

UCF Degree Programs

Note: Internship II includes a 3 SH module on assessment

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 124 hours

FOREIGN LANGUAGE EDUCATION- SPANISH (B.S.)

College of Education

Department of Teaching and Learning Principles

407-823-5791

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

Coordinator: Karen Verkler, 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 on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- Present an overall GPA of 2.5
- Meet any special departmental requirements

Degree Requirements

- Students should see an advisor

1. UCF General Education Program (36 hrs)

A. Communication Foundations	(9 hrs)
ENC 1101 Composition I	3 hrs
ENC 1102 Composition II	3 hrs
SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations	(9 hrs)
AMH 2010 U.S. History 1492-1877	3 hrs
AMH 2020 U.S. History 1877-Present	3 hrs
PHI 2010 Introduction to Philosophy	3 hrs
C. Mathematical Foundations	(6 hrs)
MGF 1106 Finite Mathematics	3 hrs
Select one:	3 hrs
STA 1060C Basic Statistics using MS Excel <i>or</i>	
STA 2014C Principles of Statistics	
D. Social Foundations	(6 hrs)
POS 2041 American National Government	3 hrs
PSY 2012 General Psychology	3 hrs
E. Science Foundations	(6 hrs)
PSC 1121 Physical Science	3 hrs
Select one:	3 hrs
ANT 2511 The Human Species <i>or</i>	
BSC 1005 Biological Principles	

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (31 hrs)

A. Communications	(9 hrs)
ENC 1101 Composition I	GEP
ENC 1102 Composition II	GEP

SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities		(6 hrs)
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	

C. Mathematics		(9 hrs)
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	

D. Social Science/History		(12 hrs)
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP

E. Science		(9 hrs + lab)
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	

Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		1 hr
BSC 1005L	Biological Principles Laboratory <i>or</i>	
GEO 1200L	Physical Geography Laboratory <i>or</i>	
PSC 1121L	Physical Science Laboratory	

F. Education Courses		(9 hrs)
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP

H. Other Program Prerequisites		(12 hrs)
A total of 12 hours of courses in elementary and intermediate grammar, composition, and advanced conversation, and culture and civilization in Spanish.		
SPN 2230	Intermediate Spanish Lang and Civ I	3 hrs
SPN 2231	Intermediate Spanish Lang and Civ II	3 hrs
SPN 3760	Advanced Spanish Oral Communication	3 hrs
SPN 3300	Advanced Spanish Grammar and Composition	3 hrs

3. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
RED 4043	Content Reading K-12	3 hrs

4. Internship I (ESE 3940) (3 hrs)

- EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I
- See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (18 hrs)

FLE 4333	For Lang Tch in the Secondary School	3 hrs
FLE 4314	For Lang Tch in the Elementary School	3 hrs
SPN 4780	Spanish Phonetics	3 hrs
SPN 3420	Spanish Composition	3 hrs
SPW 3100	Survey of Spanish Literature I	3 hrs
SPW 3101	Survey of Spanish Literature II <i>or</i>	3 hrs
In place of SPW 3100 and SPW 3101:		
SPW 3130	Survey of Latin American Lit I	
SPW 3131	Survey of Latin American Lit II	

6. Upper Division Restricted Electives (6 hrs)

Select two upper division (3000 or 4000 level) courses in Spanish with advisor's approval

7. Other Cognate Requirements (3 hrs)

Select one of the following:		3 hrs
LIN 3010	Principles of Linguistics <i>or</i>	
LIN 4643	Cross-Cultural Communication <i>or</i>	
FOL 3730	Romance Philology <i>or</i>	

SPN 3852	Bilinguismo <i>or</i>
SPN 4800	Spanish-American Syntax <i>or</i>
SPN 4801	Spanish Morphosyntax

8. Internship II (ESE 4943) (12 hrs)

- At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- 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 6A-5.065

Note: Internship II includes a 3 SH module on assessment

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 124 hours

FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)

College of Arts and Sciences

Department of Chemistry, CH 329, 407-823-6205

<http://www.cas.ucf.edu/chemistry/forensic.html>

E-mail: chemistry@ucf.edu

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 of study 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 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (38 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2253 Applied Calculus I	3 hrs
Select STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select PHY 2053C College Physics (PR: MAC 1105 and MAC 1114)	4 hrs
Select BSC 2010C General Biology	4 hrs

2. Common Program Prerequisites (15 hrs)

BSC 2010C	General Biology	GEP	4 hrs
CHM 2045C*	Chem Fund I		4 hrs
CHM 2046 & L	Chem Fund II with Lab		4 hrs
MAC 2253*	Applied Calculus I	GEP	3 hrs
MAC 2254*	Applied Calculus II		3 hrs
PHY 2053C*	College Physics I	GEP	4 hrs
PHY 2054C*	College Physics II		4 hrs

*See Transfer Notes for possible substitutes

3. Core Science and Math Requirements (24 hrs)

BSC 2010C	General Biology	GEP	4 hrs
CHM 2210	Organic Chem. I		3 hrs
CHM 2211 & L	Organic Chem II with lab		5 hrs
CHM 3120C	Analytical Chemistry		5 hrs
STA 1060C	Statistics with Excel		3 hrs
STA 2023	Statistical Methods I	GEP	4 hrs
PCB 3063 & L	Genetics		4 hrs
PCB 3233 & L	Immunology		4 hrs

4. Forensic Science Core (19 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 3533C	Forensic Biochemistry I	3 hrs
CHS 4591	Forensic Science Internship	4 hrs

5. Forensic Analysis Track (28 hrs)

Required Courses		(16 hrs)
CHM 3410	Physical Chemistry I	4 hrs
CHM 4130C	Advanced Analytical Chemistry	4 hrs
CHS 3530C	Foren Anal of Controlled Subs	4 hrs
CHS 3511C	Trace Evidence	4 hrs
Select 6-12 hours from the following:		
CHS 4506C	Forensic Investigating Techniques	3 hrs
CHS 4515C	Forensic Crime Scene Investigation	4 hrs
ANT 4521C	Forensic Anthropology	5 hrs
BCH 4053	Biochemistry I	3 hrs
CHM 3212L	Organic Lab Techniques II	2 hrs
Criminal Justice courses; not to exceed six hours selected from the following courses:		
CCJ 3014	Crime in America	3 hrs
CCJ 3024	The Criminal Justice System	3 hrs
CJE 4630	Serial Murder and CJ	3 hrs
CCJ 4651	Drugs and Crime	3 hrs

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 STA 1060C, a Computer Science course, or by departmental assessment.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

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

UCF Degree Programs

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 hours

Related Programs: Chemistry, Forensic Biochemistry Track

Related Minors: Chemistry

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:

- CHM 2045C*: may use CHM 1040 plus CHM 1041
- MAC 2253* & 2254*: may use MAC 2311 & 2312
- PHY 2053C* & 2054C*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics classes and Organic Chemistry classes are required for graduation.

FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)

College of Arts and Sciences

Department of Chemistry, CH 223, 407-823-0163

<http://www.cas.ucf.edu/chemistry/forensic.html>

E-mail: chemistry@ucf.edu

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 of study 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 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (38 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MAC 2253 Applied Calculus I 3 hrs
 - Select STA 2023 Statistical Methods I 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
 - Select PHY 2053C College Physics (PR: MAC 1105 and MAC 1114) 4 hrs

Select BSC 2010C General Biology 4 hrs

2. Common Program Prerequisites (15 hrs)

- BSC 2010C General Biology GEP 4 hrs
 - CHM 2045C* Chem Fund I 4 hrs
 - CHM 2046 & L Chem. Fund II with lab 4 hrs
 - MAC 2253* Applied Calculus I GEP 3 hrs
 - MAC 2254* Applied Calculus II 3 hrs
 - PHY 2053C* College Physics I GEP 4 hrs
 - PHY 2054C* College Physics II 4 hrs
- *See Transfer Notes for possible substitutes

3. Core Science and Mathematics Requirements (24 hrs)

- BSC 2010C General Biology GEP 3 hrs
- CHM 2210 Organic Chem. I 3 hrs
- CHM 2211 & L Organic Chem. II with lab 5 hrs
- CHM 3120C Analytical Chemistry 5 hrs
- STA 1060C Statistics with Excel 3 hrs
- STA 2023 Statistical Methods I GEP 4 hrs
- PCB 3063 & L Genetics 4 hrs
- PCB 3233 & L Immunology 4 hrs

4. Forensic Science Core (19 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 3533C Forensic Biochemistry I 3 hrs
- CHS 4591 Forensic Science Internship 4 hrs

5. Forensic Biochemistry Track (28 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 3523 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- BSC 3404C Quantitative Biological Methods 3 hrs
- CHS 4534C Forensic Biochemistry II 3 hrs
- CHS 4532 Interpretation of DNA Evidence 3 hrs

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 STA 1060C, a Computer Science course, or by departmental assessment.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

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 hours

Related Programs: Chemistry, Forensic Science Analysis Track, Molecular Biology and Microbiology

Related Minors: Chemistry, Molecular Biology and Microbiology

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:

- CHM 2045C*: may use CHM 1040 plus CHM 1041
- MAC 2253* & 2254*: may use MAC 2311 & 2312
- PHY 2053C* & 2054C*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics classes and Organic Chemistry classes are required for graduation.

FRENCH (B.A.)

College of Arts and Sciences

Department of Foreign Languages & Literatures CNH 523,

<http://pegasus.cc.ucf.edu/~forlang>

E-mail: foreignlanguage@ucf.edu

C. E. Stebbins, 407-823-2472

Admission Requirements

none

Placement in Language courses

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 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 Foreign 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 Foreign Languages and Literatures
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
 - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites

(0-14 hrs)

- FRE 1120* Elem French Lang & Civ I 4 hrs
- FRE 1121* Elem French Lang & Civ II 4 hrs
- FRE 2200* Interm French Lang & Civ I 3 hrs
- FRE 2201* Interm French Lang & Civ II 3 hrs

* May be met by proficiency test or completion of FRE 2201

3. Core requirements

(21 hrs)

- FRE 3300* Advanced Grammar 3 hrs
- FRE 3420* French Composition 3 hrs
- or
- FRE 4422 Advanced French Composition 3 hrs
- FRE 3760* Adv French Oral Communication 3 hrs
- or
- FRE 4421 Advanced French Conversation 3 hrs
- FRW 3100 Survey of French Literature I 3 hrs
- FRW 3101 Survey of French Literature II 3 hrs
- FRE 4780* 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
- 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 hours

Related Programs: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

GENERAL BUSINESS (B.S.B.A.)

College of Business Administration

BA 240, 407-823-2184

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

Faculty Advisor: B. Moore, BA 466, 407-823-5256, bmore@bus.ucf.edu

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

- 1. UCF General Education Program (36 hrs)
- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
 - Select MAC 1105 College Algebra

UCF Degree Programs

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

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 MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

3. Required for All Business Majors (30 hrs)

First Semester in the College of Business Administration:		
GEB 3031	Cornerstone	6 hrs
GEB 3356	Introduction to Internation Business	3 hrs
First or subsequent semesters depending on major:		
BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Info Sys	3 hrs
MAR 3023	Marketing	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs

4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major
- Students must take 60 semester hours in courses outside the College of Business.
- 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.

5. Second Level Core (5 courses):

Students must take one course from each of the following areas: Accounting (must take ACG 3131), Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:

Accounting	
ACG 3131	Financial Accounting Concept
ACG 3361	Intermediate Managerial Accounting
TAX 4001	Federal Income Tax I

Economics	
ECO 3223	Money and Banking
ECP 3203	Contemporary Labor Economics
ECP 4703	Managerial Economics

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

Marketing	
MAR 3613	Marketing Research & Analysis
MAR 3403	Sales Force Management
MAR 4841	Service Marketing
MAR 4156	International Marketing

6. Restricted Electives (four courses): (12 hrs)

Restricted electives are to be taken from three 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. General Business Track: International Business

Required International Courses*		9-15 hrs
ACG 4252	International Accounting	
ECO 4701	The Global Economy	
FIN 4604	International Financial Management	
MAN 4600	International Management	
MAR 4156	International Marketing	

Electives 9-18 hrs**

GEB 4363	Export and Import Management
GEB 4358	International Negotiations and Transactions
INR 4035	International Political Economy***
ANT 3212	Peoples of the World***

Any Foreign Language 3000/4000 level***

Any course from International electives in Economics

* Required international + electives must add up to 27 hours

** IB 2000 may be used for up to six credit hours. Other approved internship or independent studies may be used for up to three credit hours.

*** Students may select no more than one of these electives

■ Note: the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

9. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 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. Electives*** (variable)

Total Semester Hours Required 120 hours

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

GENERAL BUSINESS (B.S.B.A.)

AS to BS TRACK

Note: For detailed information about this program, see the AS to BS Program section.

HEALTH INFORMATION MANAGEMENT (B.S.)

College of Health and Public Affairs

HPA2 210, 407-823-2369

Undergraduate Program Director: Thomas Falen

E-mail: tfalen@mail.ucf.edu

Web Address: <http://www.cohpa.ucf.edu/health.pro/>

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) (No TSD credit may be used for prerequisite courses)

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisites Requirements before transferring within the Florida Public University/ Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program
- UCF Residency Requirement: 31 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2014C	
D. Social Foundations	6 hrs
E. Science Foundations	6 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

3. Core Requirements (68 hrs)

HSC 3149	Introduction to Pharmacology	3 hrs
HSA 3170	Health Care Finance	3 hrs
HSA 4109	Principles of Managed Care	3 hrs
HSA 4193	Health Care Automation	3 hrs
HSA 4700	Intro to Research in Health Prof	3 hrs
HSC 3531	Medical Terminology	3 hrs
HSC 3640	Health Law	3 hrs
HSC 4550	Pathophysiologic Mechanisms	3 hrs
MAN 3025	Management of Organizations or	
HSA 4180	Organization /Management for Health Agencies	3 hrs
HIM 3006	Foundations of Health Information Management	3 hrs
HIM 3116C	Health Record Organization & Management	4 hrs
HIM 3806L	Professional Practice Exp. I	2 hrs
HIM 3816L	Professional Practice Exp. II	2 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	

HIM 4506	Management	4 hrs
HIM 4836L	Performance Improvement	3 hrs
HIM 4837L	Professional Practice Exp. III	2 hrs
HIM 4838	Professional Practice Exp. IV	2 hrs
HIM 4656C	Management Affiliation	5 hrs
	Health Information Management Systems	3 hrs

4. Upper Division Restricted Electives

none

5. Departmental Exit Requirements (120 hrs)

A minimum 2.5 overall GPA is required for graduation.

Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

6. Electives

none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:

none

8. University Minimum Exit Requirements (120 hrs)

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Related Programs: Health Services Administration, Business, Computer Science

Related Minors: Health Services Administration, Business, Computer Science

Transfer Notes:

Community College Equivalents:	
Human Anatomy & Physiology I & II (BSC X085 and X086)	8
Statistics (STA 2014C or any other statistics course)	3
Computer Science for Business (CGS 1060C or any other computer science course)	3

Tentative Course Schedule for Entering Freshmen

Freshman Year*		14 hrs	Spring	16 hrs
Fall				
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 2211	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		13 hrs	Spring	13 hrs
Fall				
ACG 2021		3	ACG 2071	3
ZOO 3733C		4	PCB 3703C	4
EUH 2001 or HUM 2230		3	SPC 1600	3
or AMH 2020			One Course: ARH 2050	3
CGS 2100C		3	ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	
Summer		8 hrs		
(Foreign Lang I)		4		
(Foreign Lang II)		4		
if not satisfied in high school				
Junior Year		14 hrs	Spring	14 hrs
Fall				
HSA 4193**		3	HIM 4226C	5

UCF Degree Programs

HSC 4550**	3	HIM 3116C	4
HIM 3006	3	HIM 3816L	2
HIM 3806L	2	HSC 3149	3
HSC 3531**	3		
Summer			
	8 hrs		
MAN 3025**; or HSA 4180	3		
HIM 4836L	2		
HSC 3640**	3		
Senior Year			
Fall	13 hrs	Spring	14 hrs
HIM 4344C	4	HIM 4676	3
HSA 3170**	3	HIM 4656C	3
HIM 4506	3	HIM 4837L	2
HIM 4256C	3	HSA 4700**	3
		HSA 4109**	3
Summer			
	5 hrs		
HIM 4838	5		

**NOTE: The asterisked courses may be taken at any time during the two years. The HIM courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.

HEALTH SCIENCES - ATHLETIC TRAINING TRACK (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-3463

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

E-mail: dcassidy@mail.ucf.edu

Undergraduate Program Director: David Cassidy

Admission Requirements

Students may only begin the athletic training program track in the Summer semester and must have:

- Acceptance to the University as an undergraduate student in Health Sciences - Athletic Training.
- A minimum of 3.0 overall grade point average.
- Completion of an AA degree from a Florida Community College; or completion of UCF's General Education 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.
- Consent of Program Director.
- A minimum of 100 documented clock hours working, volunteering, or shadowing with a licensed athletic trainer prior to admission to the program.
- No TSD credit may be used for prerequisite courses.

Technical Standards Requirement

The Athletic Training Educational Program 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 set forth by the Athletic Training Educational Program 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 Allied Health Education Programs [CAAHEP]). The following abilities and expectations must be met by all students admitted to the Athletic Training Educational Program. 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 NATABOC certification exam.

Candidates for selection to the Athletic Training Educational Program 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 athletic training educational program will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. University of Central Florida will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review a whether the accommodations requested are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences and internships deemed essential to graduation.

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
- The courses designated in sections 1 (General Education) and 2 (Core Requirements) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
Select POS 2041	
Select PSY 2012	
E. Science Foundations	6 hrs
BSC 2010C	
CHM 2045C	

2. Common Course Prerequisites (15 hrs)

The following courses are required before entering the professional phase of the athletic training program. Each of the required courses must have a grade of "C" (2.0) or better.

BSC 2010C	General Biology I and Lab	GEP
ZOO 3733C	Human Anatomy	4 hrs
PCB 3703C	Human Physiology	4 hrs
CHM 2045C	General Chemistry I	GEP
PHY 2053C	Coll Physics I (algebra based) <i>or</i>	4 hrs
PHY 2048&L	Physics for Scientists I (calculus based)	

UCF Degree Programs

HUN 2002	Modern Concepts of Nutrition	3 hrs
STA 2023	Statistical Methods I	GEP
PSY 2012	General Psychology	GEP
3. Professional Phase (58 hrs)		
PET 4603	Intro to Sports Medicine	3 hrs
PET 3620C	Principles of Athletic Training	2 hrs
PET 3620C	Principles in Athletic Training (Lab)	1 hr
PET 3670C	Practicum in Athletic Training I	4 hrs
PET 4351	App Exercise and Human Phys	3 hrs
PET 3623C	Art & Science Athletic Training I	2 hrs
PET 3623L	Art & Science Athletic Training I (Lab)	1 hr
PET 3671C	Practicum in Athletic Training II	4 hrs
PET 4660C	Org and Adm in Athletic Training	3 hrs
PET 4630C	Ther Exercise in Athletic Training	3 hrs
PET 4630L	Ther Exercise in Athletic Training (Lab)	1 hr
PET 4632C	Ther Mod in Athletic Training	3 hrs
PET 4632C	Ther Mod in Athletic Training(Lab)	1 hr
PET 4624C	Art & Sci of Athletic Training II	2 hrs
PET 4624C	Art & Sci of Athletic Training II (Lab)	1 hr
PET 4315C	Biomechanics of Sport	3 hrs
PET 4672C	Practicum in Athletic Training III	4 hrs
HSA 4700	Health Science Research	3 hrs
PET 4606	App Fitness in Sport	3 hrs
PET 4673C	Practicum in Athletic Training IV	4 hrs
HSC 3149	Introduction to Pharmacology	3 hrs
PLA 4824	Legal Issues for Athletic Trainers	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 certified Athletic Trainer (ATC).

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
- 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 hours**

Related Programs: Aging studies Certificate, Business, Public Administration

Related Minors: Business, Computer Sciences, Aging Studies, Information Systems, and Public Administration. Courses leading to a Certificate in Aging Studies are appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

Transfer Notes:

General Biology with Lab (BSC 1010/L)	4 hrs
Human Anatomy and Physiology I & II (BSC X093 and X094 or BSC X085 and X086)	8 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	15 hrs	Spring	14 hrs
ENC 1101	3	ENC 1102	3
PSY 2012	3	POS 2041	3
HSC 2000	2	BSC 2010C	4
MAC 1105	3	MAC 1114	4
CHM 2045C	4		

*Plan your required nine summer hours into your course of study

Sophomore Year			
Fall	14 hrs	Spring	13 hrs
PHY 2053C	4	MUL 2010 or REL 2300	3
ZOO 3733C	4	or THE 2000 or PHI 2010	
STA 2023	3	PCB 3703C	4
EUH 2000 or HUM 2211	3	SPC 1600	3
or AMH 2010 or WOH 2012		EUH 2001 or HUM 2230	3
		or AMH 2020 or WOH 2022	

Summer	11 hrs		
PET 4603	3		
(Foreign Lang I)	4		
(Foreign Lang II)	4		
if not satisfied in high school			

Junior Year			
Fall	13 hrs	Spring	13 hrs
PET 3620C	2	PET 3623C	2
PET 3620C	1	PET 3623C	1
PET 3670C	4	PET 3671C	4
PET 4351	3	PET 4660C	3
HUN 2002	3	PLA 4932	3

Summer	8 hrs		
PET 4630C	3		
PET 4630C	1		
PET 4632C	3		
PET 4632C	1		

Senior Year			
Fall	11 hrs	Spring	13 hrs
PET 4624C	2	HSA 4700	3
PET 4624C	1	PET 4606	3
PET 4315C	3	PET 4673C	4
PET 4674	1	HSC 3149	3
PET 4672C	4		

HEALTH SCIENCES - GENERALIST TRACK (B.S.)

Purposes of this degree - Provides an opportunity for credentialed health care professionals to expand scope of their education through completion of courses both within and outside of their discipline and to enable students considering a health services career to complete courses in several disciplines in order to make informed career decisions.

College of Health and Public Affairs

HPA2 210, 407-823-2369

Undergraduate Program Director: Thomas Falen

Web Address: <http://www.cohpa.ucf.edu/health.pro>

Admission Requirements **none**

Degree Requirements

- 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
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below)
- No transfer course will be accepted with a grade lower than a "C."
- Students who change degree programs and select this major must adopt the most current catalog
- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
 - Select MUL 2010 Enjoyment of Music or REL 2300
 - World Religions or THE 2000 Theater Survey or PHI 2010 Intro to Philosophy
- C. Mathematical Foundations 6 hrs
 - Select MAC 1105 College Algebra
 - Select STA 2014C Principles of Statistics or STA 2023 Statistical Methods I
- D. Social Foundations 6 hrs

UCF Degree Programs

Select POS 2041 American National Government
 Select PSY 2012 General Psychology
 E. Science Foundations 6 hrs
 Select BSC 2010C General Biology
 Select PHY 2053C College Physics I and Lab

2. Common Program Prerequisites (0 hrs)
 MAC 1105 College Algebra
 STA 2014C Principles of Statistics *or*
 STA 2023 Statistical Method I
 BSC 2010C General Biology GEP

3. Core Requirements - Lower Division (14 hrs)
 CGS 2100C Computer Fundamentals for Business *or* 3 hrs
 CGS 1060C Intro to Computer Science
 CHM 1032 General Chemistry 3 hrs
 ECO 2023 Microeconomics 3 hrs
 HSC 2000 Intro to the Allied Health Professions 2 hrs
 MAC 1114 College Trigonometry 3 hrs

Core Requirements - Upper Division (48 hrs)
 HIM 3006 Foundations of Health Info Mngmnt 3 hrs
 HSA 3122 US Healthcare Systems 3 hrs
 HSA 4109 Managed Care 3 hrs
 HSA 4120 Community Health Services 3 hrs
 HSA 4180 Org & Mgt of Health Agencies *or* 3 hrs
 PET 4660C Org & Admin of Athletic Training
 HSA 4193 Health Care Automation 3 hrs
 HSA 3210 Long Term Care Administration 3 hrs
 HSA 4700 Health Science Research 3 hrs
 HSC 3110C Medical Self Assessment 3 hrs
 HSC 3531 Medical Terminology 3 hrs
 HSC 3640 Health Law 3 hrs
 HSC 4243 Analysis of Instruction 3 hrs
 HSC 4500 Epidemiology 3 hrs
 HSC 4564 Healthcare Needs of the Elderly *or* 3 hrs
 PHT 3259 Patient Care Skills
 HSC 4653 Healthcare Ethics 3 hrs
 HUN 3011 Human Nutrition *or* 3 hrs
 HSC 3593C HIV Disease *or*
 HSC 4008 Professional Development of the Health Professions

4. Lower Level Electives (0-5 hrs)
 Number of hours depends upon the number of foreign language hours required

5. Upper Division Restricted Electives (0-15 hrs)
 Up to 15 hours from related health science programs with departmental approval

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.
Graduation: None

7. Program Exit Requirements (120 hrs)
 The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3, and 4).

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 hours

Related Programs:
 The participating student may also consider applying for consideration to one or more of the following undergraduate professional degree options: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration, Professional graduate study disciplines to which this

degree option might lead: Physical Therapy, Social Work, Health Services Administration.

Related Minors: None

Transfer Notes:

Associate of Arts Degree recommended

Tentative Course Schedule for Entering Freshmen

Freshman Year		14 hrs	Spring	16 hrs
Fall	ENC 1101	3	ENC 1102	3
	CGS 1060C <i>or</i> CGS 2100C	3	POS 2041	3
	CHM 1032	3	BSC 2010C	4
	MAC 1105	3	PSY 2012	3
	HSC 2000	2	ECO 2023	3

Sophomore Year		15/17 hrs	Spring	14/16 hrs
Fall	PHY 2053C	4	MUL 2010 <i>or</i> REL 2300	3
	MAC 1114	3	<i>or</i> THE 2000 <i>or</i> PHI 2010	
	SPC 1600	3	STA 2014C <i>or</i> STA 2023	3
	EUH 2000 <i>or</i> HUM 2211	3	Elective	3
	<i>or</i> AMH 2010		EUH 2001 <i>or</i> HUM 2230	3
	Foreign Lang I* <i>or</i> other lower level courses	2/4	<i>or</i> AMH 2020	
			Foreign Lang II* <i>or</i> other lower level courses	2/4

* if not satisfied in high school. If foreign language is fulfilled through other than classwork, student shall be required to complete 6-8 hours of lower division elective classwork.

Junior Year		15 hrs	Spring	15 hrs
Fall	HSC 3110C	3	HSA 4180 <i>or</i> PET 4660C	3
	HIM 3006	3	HSA 3210	3
	HSC 3640	3	HSC 4500	3
	HSA 3122	3	HSA 4120	3
	HSA 3531	3	HUN 3011 <i>or</i> HSC 4008 <i>or</i> <i>or</i> HSC 3593C	3

Senior Year		15 hrs	Spring	15 hrs
Fall	HSA 4700	3	HSC 4243	3
	HSC 4564 <i>or</i> PHT 3259	3	HSA 4109	3
	HSA 4193	3	HSC 4653	3
	Elective (if needed)	3	Elective (if needed)	3
	Elective (if needed)	3	Elective (if needed)	3

HEALTH SERVICES ADMINISTRATION (B.S)

College of Health and Public Affairs

HPA2 210, 407-823-2359

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

Executive Director of HSA Programs: Myron Fottler

Undergraduate Program Director: Thomas Falen

Graduate Program Director: Dawn Oetjen

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- UCF Residency Requirement: 30 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
 B. Cultural Historical Foundations 9 hrs
 C. Mathematical Foundations 6 hrs
 Select MAC 1105
 Select STA 2014C *or* 2023
 D. Social Foundations 6 hrs
 Select ECO 2023
 E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)

UCF Degree Programs

CGS 2100C	Computer Fund for Business Applications	or	3 hrs
CGS 1060C	Intro to Computer Science		
ECO 2023	Microeconomics	GEP	
ACG 2021	Financial Accounting		3 hrs
ACG 2071	Managerial Accounting		3 hrs
STA 2014C	Statistical Methods	GEP	
STA 2023			

Students must earn a "C" (2.0) or better in each Common Program Prerequisite course.

3. Core Requirements (45 hrs)

HSA 3122	U.S. Health Care Systems	3 hrs
HSA 3170	Health Care Finance	3 hrs
HSA 3210	Long Term Care Administration	3 hrs
HSA 4109	Principles of Managed Care	3 hrs
HSA 4120	Community Health Services	3 hrs
HSA 4180	Organization and Management for Health Agencies	3 hrs
HSA 4193	Health Care Automation	3 hrs
HSA 4502	Risk Management	3 hrs
HSA 4700	Health Science Research Methods	3 hrs
HSC 3531	Medical Terminology	3 hrs
HSC 3640	Health Law	3 hrs
HSC 4500	Epidemiology	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
HSC 4653	Health Care Ethics	3 hrs
HSA 3430	Health Care Economics	3 hrs

Students must earn a "C" (2.0) or better in each Core Requirement course.

4. Upper Division Restricted Electives none

5. Program Exit Requirements (120 hrs)

Students must earn a "C" (2.0) or better in each Health Services Administration elective course.

6. Electives (variable)

Students are encouraged to take additional Health Service Administration courses as electives or other courses that will enhance their background in the health care industry. These may be used to build minors and certificates offered by the University. Examples include: Health Sciences, Aging Studies, Public Administration, Criminal Justice, and Business. HSA elective courses include:

HSA 4941	HSA Internship
HIM 4656C	Health Information Management Systems
HIM 3006	Foundations of Health Information Management
HIM 4506	Quality Management

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 hours

Related Programs: Aging Studies Certificate, Public Administration, Health Information Management

Related Minors: Aging Studies, Health Information Management, Health Sciences, Information Systems, and Public Administration. Courses leading to a Certificate in Aging Studies are appropriate.

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 or SYG 2000	3	ECO 2013	3

or ANT 2000		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 1600	3

Summer 3 hrs

CGS 2100C 3

*Plan your required nine summer hours into your course of study

Sophomore Year

Fall	12 hrs	Spring	15 hrs
ACG 2021	3	ACG 2071	3
ECO 2023	3	STA 2023	3
BSC 1005	3	HSA 3122	3
EUH 2000 or HUM 2211	3	EUH 2001 or HUM 2230	3
or AMH 2010 or WOH 2012		or AMH 2020 or WOH 2022	
		Elective	3

Summer 8 hrs

(Foreign Lang I) 4

(Foreign Lang II) 4

if not satisfied in high school

Junior Year

Fall	15 hrs	Spring	15 hrs
HSC 4500	3	HSA 4193	3
HSA 3210	3	HSA 3170	3
HSC 3531	3	HSA 4180	3
HSA 4120	3	Elective	3
Elective	3	Elective	3

Senior Year

Fall	15 hrs	Spring	15 hrs
HSA 3430	3	HSC 4564	3
HSC 3640	3	HSA 4109	3
HSC 4653	3	Internship	3
HSA 4502	3	HSA 4700	3
Elective	3	Elective	3

Notes:

Students are urged to have access to a personal computer, modem, and appropriate software to interact with the University and professors.

A variety of internship opportunities are available for HSA majors. An internship is not required but highly recommended.

HISTORY (B.A.)

College of Arts and Sciences

History Department, CNH 551,

<http://pegasus.cc.ucf.edu/~history>

E-mail: history@ucf.edu

E. Kallina, 407-823-2224

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department
- Students must compile a portfolio of their written work in history, completed inside and outside the classroom
- Students must complete 36 hours in history
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
 - Select AMH 2010 US History: 1492-1877 3 hrs
 - Select AMH 2020 US History: 1877-Present 3 hrs
 - Select from GEP list 3 hrs
- C. Mathematical Foundations

UCF Degree Programs

Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer CGS 1060C Intro to Computer Sci	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites	(0 hrs)
AMH 2010* US History: 1492-1877	GEP
AMH 2020* US History: 1877-Present	GEP
*See Transfer Notes for possible substitutes	

3. Core Requirements	(9 hrs)
HIS 4150 History & Historians	3 hrs
Select one sequence	6 hrs
EUH 2000, 2001 Western Civilization I & II	
WOH 2012, 2022 World Civilization I & II	

4. Upper Division Restricted Electives (Must be taken within the History Department)	(21 hrs)
Select six hours of approved history courses within three of the four geographic regions.	18 hrs
1) Asian, African, and Middle Eastern	
2) British and European	
3) Latin American	
4) U.S. and Canadian	
Select three hours of approved history courses	3 hrs

- 5. Departmental Exit Requirements**
- Maintain a minimum GPA of 2.0 in upper division required courses attempted
 - Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student's written work including, but not limited to, book critiques, in-class essay exams, and term papers.
 - Computer Competency met by completion of the major
 - Students must complete at least 18 of the required 36 History hours at UCF

6. Foreign Language Requirements	(0-8 hrs)
Admission: Met by graduation requirement	

Graduation: Two semesters or equivalent proficiency exam. 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 hours**

Related Programs: Humanities

Related Minors: African-American Studies, American Studies, Asian Studies, History, Humanities, Latin American and Iberian Area Studies, Russian Area Studies, Women's Studies

Transfer Notes:

- Grades below "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- AMH 2010* & 2020*: may use any two introductory courses with

an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

HISTORY ACCELERATED PROGRAM (B.A. and M.A.) Accelerated Undergraduate/Graduate Program

Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Program" section of this *Undergraduate Catalog*.

HOSPITALITY MANAGEMENT (B.S.) Rosen School of Hospitality Management Classroom Building I, Room 302 407-823-2188

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

E-mail: hospitality@mail.ucf.edu

Dean: Abraham Pizam

Degree Requirements

1. UCF General Education Program	(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 <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	(3 hrs)
HFT 1000 Introduction to Hospitality/Tourism	3 hrs

3. Hospitality Management Core	(49 hrs)
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A. Fundamentals		(3hrs)
HFT 3540 Guest Services Management		3 hrs
B. Managerial Tools		(21 hrs)
HFT 2403 Hospitality Financial Accounting		3 hrs
HFT 3431 Hospitality Managerial Accounting		3 hrs
HFT 2500 Hospitality Marketing		3 hrs
HFT 2220 Hospitality Human Resource Mgmt		3 hrs
HFT 2444 Hospitality Information Systems		3 hrs
HFT 3600 Legal Environment in Hospitality		3 hrs
HFT 4295 Strategic Management in Hospitality Ind		3 hrs
C. Sectoral Studies		(21 hrs)
HFT 2254 Lodging Operations		3 hrs
FSS 2221C Quantity Food Preparation		3 hrs
HFT 3700 Tourism Management		3 hrs
HFT 2750 Meetings/Convention/Exp Industry		3 hrs
HFT 3261 Restaurant Management		3 hrs
HFT 3273 Principles of Resort Time Sharing		3 hrs
HFT 4755 Theme Park and Attraction Mgmt		3 hrs
D. Internships		(3 hrs)
HFT 3940 Practicum I		1 hr
HFT XXXX Practicum II		1 hr
HFT 4941 Practicum III		1 hr
E. Guest Lectures		(1 hr)
HFT 3933 Distinguished Lectures in Hospitality Management		1 hr

4. Special School Requirements:

- 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.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

5. Restricted Electives:

Students must take 18 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the seven specialized career tracks as outlined below.

A. Generalist Track	(18 hrs)
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UCF Degree Programs

Choose six advanced courses from the following list:

HFT 3313	Hospitality Physical Plant Management	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs
HFT 4298	Hospitality Business Consulting	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 3785	Management of Gaming Enterprises	3 hrs
HFT 3807	Multi-Unit Food Service Organizations	3 hrs
HUN 3013	Nutrition Concepts & Issues in Food Svc	3 hrs
HFT 4861	Beverage Management	3 hrs
FSS 3124	Supply and Procurement Management	3 hrs
FSS 3232C	Intermediate Techniques of Food Production	3 hrs
FSS 4286C	Catering and Banquet Organization	3 hrs
HFT 3511	Convention & Conference Sales	3 hrs
HFT 4753	Convention & Conference Services	3 hrs
HFT 4754	Exhibit & Trade Show Operations	3 hrs
HFT 4735	Tourism Geography	3 hrs
HFT 4722	Travel Agency Management	3 hrs
HFT 4762	Current Practices in the Airline Industry	3 hrs
HFT 4275	Vacation Ownership Resort Development	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 3741	Meeting Management	3 hrs
HFT 3757	Event Management	3 hrs
HFT 4266	Restaurant Brand Management	3 hrs
HFT 4268	Case Studies in Restaurant Management	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 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 4269	Case Studies in Multi-Unit Restaurant Management	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs
HFT 4XXX	Hospitality Communications	3 hrs
HFT 4XXX	Hotel Operations	3 hrs
FSS 33003	Culture and Cuisine	
HFT 3784	Amusement Technology	
HFT 3802	Catering Management	
HFT 3770	Cruise Line Operations and Management	
HFT 3574	Food Service Marketing Advertising and Promotion Management	
HFT 3654	Franchising in the Restaurant Industry	
HFT 3XXX	Law and Restaurant Management	
HFT 3374	Multi-Media Applications in Exhibitions	
HFT 3834	Topics in Restaurant and Foodservice Management	
HFT 4375	Advanced Trade Show Management	
HFT 4864	Anheuser Busch Seminar in Quality Brewing and Fine Beer	
HFT 4425	Financial Analysis for Restaurant Managers	
HFT 4786	Managing the Guest Experience in Theme Park and Attractions	
HFT 4787	Operational Issues in the Theme Park and Attraction Industry	
HFT 4281	Restaurant Leadership Strategies and Tactics	
HFT 4645	Restaurant Real Estate, Site Selection and Modeling	
HFT 4277	Yacht, Country, and City Club Management	
HFT 4XXXC	Exploring Wines of the World	

B. Convention/Conference Management Track (18 hrs)

HFT 4753	Convention and Conferences Services	3 hrs
HFT 4754	Exhibit and Trade Show Operations	3 hrs
HFT 3802	Catering Management	3 hrs
HFT 3741	Meeting Management	3 hrs
HFT 3757	Event Management	3 hrs
HFT 3511	Convention and Conference Sales	3 hrs

C. Food Service and Restaurant Operations Management Track (18 hrs)

HFT 3807	Multi-Unit Food Service Organizations	3 hrs
HFT 4266	Restaurant Brand Management	3 hrs
HFT 4844	Sanitation Mgt in Foodservice Industry	3 hrs
HFT 4861	Beverage Management	3 hrs
FSS 3124	Supply and Procurement Management	3 hrs

Plus one course from the following list:

FSS 4135	Corporate Contract & Managed Services Orgs	3 hrs
FSS 3232C	Intermediate Techniques of Food Production	3 hrs
FSS 4286C	Catering and Banquet Organization	3 hrs
HUN 3013	Nutrition Concepts & Issues in Food Svc	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs

HFT 4268	Case Studies in Restaurant Management	3 hrs
HFT 4269	Case Studies in Multi-Unit Restaurant Management	3 hrs

D. Vacation Ownership Resort Management Track (18 hrs)

HFT 4275	Vacation Ownership Resort Development	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
HFT 4462	Hospitality Financial Management	3 hrs

E. Theme Park and Attraction Management Track (18 hrs)

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 Attractions Industry	3 hrs
HFT 3757	Event Management	3 hrs

F. Tourism Management Track (18 hrs)

HFT 4735	Tourism Geography	3 hrs
HFT 4722	Travel Agency Management	3 hrs
HFT 4762	Current Practices in the Airline Industry	3 hrs
HFT 4754	Exhibit & Trade Show Operations	3 hrs
HFT 3757	Event Management	3 hrs
Plus one course from the Generalist Track (A)		3 hrs

G. Lodging Management Track (18 hrs)

HFT 3313	Hospitality Physical Plant Management	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4753	Convention & Conference Services	3 hrs
HFT 4462	Hospitality Financial Management	3 hrs
HFT 4XXX	Hotel Operations	3 hrs

H. Hospitality Financial Management and Technology (18 hrs)

HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs

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
- 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. Unrestricted Electives (6-14 hrs)

As necessary to result in 120 total credit hours.

Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that

UCF Degree Programs

required in the UCF School of Hospitality Management.

- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*

*Plan your required nine summer credit hours into your course of study.

Freshman

Fall	15 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
Cult-Hist I	3	Cult-Hist II	3
CGS 2100C	3	SPC 1600	3
HFT 1000	3	HFT 2500 Hosp 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
HFT 2254 Lodging Ops	3	HFT 2403 Hosp Fin Acct	3
HFT 2444 Hosp Info Sys	3	HFT 2220 Hosp Hum Res	3
HFT 2750 Meet/Conv/Exp	3	FSS 2221C Quant Food Prep	3

Junior

Fall	14 hrs	Spring	16 hrs
HFT 3540 Guest Svcs Mgmt	3	HFT 3700 Tourism Mgt	3
HFT 3600 Legal Environ	3	HFT 3261 Restaurant Mgt	3
HFT 3431 Hosp Mgr Acct	3	HFT 3273 Prin Res Tim Shr	3
Hospitality Elective	3	Hospitality Elective	3
HFT 3940 Practicum I	1	HFT XXXX Practicum II	1
HFT 3933 Dist Lect in Hosp	1	HFT 4755 Theme Park Mgmt	3

Senior

Fall	15 hrs	Spring	15 hrs
HFT 4941 Practicum III	1	HFT 4295 Strat Mgt in Hosp	3
Hospitality Elective	3	Hospitality Elective	3
Hospitality Elective	3	Hospitality Elective	3
Unrestricted Electives	8	Unrestricted Electives	6

HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. Track

Note: For detailed information about this program, see description in the AS to BS Programs section.

HUMANITIES (B.A.)

College of Arts and Sciences

Philosophy Department, CNH 411,

<http://www.cas.ucf.edu/philosophy/>

E-mail: philosophy@ucf.edu

TBA, 407-823-2273

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 2211 Humanistic Tradition I 3 hrs

- Select HUM 2230 Humanistic Tradition II 3 hrs
- Select PHI 2010 Intro to Philosophy *or* REL 2300 World Religions 3 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites

none

3. Core requirements

(24 hrs)

Note: Appropriate special topics courses in philosophy or humanities may be substituted for some core courses with prior approval by department advisor.

Humanities Foundations

(9 hrs)

Select three courses:

- HUM 3431 Ancient Humanities
- HUM 3435 Medieval Humanities
- HUM 3255 Modern Humanities
- HUM 3251 Contemporary Humanities

Humanistic/Religious Traditions

(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, & Mohammed
- ANT 3245 Native American Religions
- 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 3162 Healing: Culture, Art, and Praxis
- HUM 4554 Religious Quest and the Human Dilemma
- HUM 4330 Performance Theory
- PHI 3022 Sexuality, Gender, and Philosophy
- PHI 3638 Ethical Issues in the 21st Century
- PHI 4321 Phil of Embodiment: Mind/Body/Self
- REL 3XXX Religion, Spirituality, and Popular Music
- REL 3XXX Religion, Philosophy, and Film

4. Upper division Restricted Electives

(6 hrs)

Select two courses from the above list that are not being used to satisfy Core Requirements and/or from the following:

- HUM 3320 Contemporary Multicultural Studies
- HUM 4301 Classical Ideal
- HUM 4303 Spiritual Ideal
- PHI 3700 Philosophy of Religion
- PHI 3800 Aesthetics
- PHI 4804 Critical Theory
- CLA 3851 Comparative Mythology
- CLA 3850 Classical Mythology

5. Honors in the Major

Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements

(30 hours)

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
- 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

6. Departmental Exit Requirements

- **Either** HUM 4970H: Honors Thesis (3 hrs) **or** organization and submission of a portfolio (HUM 4393 - 1 hr) of one's work in humanities to a Departmental committee for approval prior to graduation.

- Earn a "C" (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4906, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters or equivalent proficiency exam. 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 hours

Related Programs: Philosophy

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.

HUMANITIES - RELIGIOUS STUDIES TRACK (B.A.)

College of Arts and Sciences

Philosophy Department, CNH 411,

<http://www.cas.ucf.edu/philosophy/>

E-mail: phildept@ucf.edu

Fax: 407-823-6658

TBA: 407-823-2273

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 2211 Humanistic Tradition I 3 hrs
 - Select HUM 2230 Humanistic Tradition II 3 hrs
 - Select REL 2300 World Religions 3 hrs
- C. Mathematical Foundations 6 hrs
 - Select MGF 1106 Finite Mathematics (May substitute a higher level math) 6 hrs
 - Prefer STA 1060C Statistics Using Excel
- D. Social Foundations 6 hrs

E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core requirements (24 hrs)

Foundations in the Study of Religion and the Humanities (9 hrs)

Select three courses, at least two must be from (a)

- (a) Religion
 - PHI 3700 Philosophy of Religion
 - POT 4632 Religion and Politics
 - SYO 4200 Sociology of Religion
 - REL 3131 Religion in America
 - ANT 3241 Magic, Ritual, and Belief

- (b) Humanities and Classics
 - HUM 3431 Ancient Humanities
 - HUM 3435 Medieval Humanities
 - HUM 3255 Modern Humanities
 - HUM 3251 Contemporary Humanities
 - CLA 3850 Classical Mythology
 - CLA 3851 Comparative Mythology

Traditions: Religion in a Global World (9 hrs)

Select three courses:

- HUM 3401 Asian Humanities
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 3552 Christian Thought
- HUM 3553 Moses, Jesus, and Mohammed
- JST 3401 The Jewish People I or II
- or 3402
- ANT 3245 Native American Religions

Applications: Topics and Issues in the Study of Religion (6 hrs)

Select two courses:

- REL 3162 Healing: Culture, Art, and Praxis
- HUM 4554 Religious Quest and the Human Dilemma
- HUM 4303 The Spiritual Ideal
- PHI 3033 Philosophy, Religion, and the Environment
- REL 3XXX Religion, Spirituality, and Popular Music
- REL 3XXX Religion, Philosophy and Film

4. Upper division Restricted Electives (9 hrs)

Select three courses from the following list and/or the Core list above (if not being used to fulfill Core Requirements)

- HUM 3320 Contemporary Multicultural Studies
- HUM 4301 The Classical Ideal
- HUM 4330 Performance Theory
- PHI 2101 Critical Thinking
- PHI 4321 Philosophy of Embodiment: Mind/Body/Self
- PHI 3638 Ethical Issues in the 21st Century
- PHI 4341 Ways of Knowing
- PHI 4804 Critical Theory
- PHP 3786 Existentialism
- AML 3615 Harlem, Haiti, and Havana
- LIT 4374 Literature of the Bible
- LIT 3202 Death and Dying
- JST 3100 The Hebrew Creative Mind
- JST 3550 Introduction of Modernism into Judaism
- JST 3701 History of the Holocaust
- JST 3751 Literature of the Holocaust
- JST 3810 The Jewish National Movement and Roots of Zionism
- ASH 3222 Islam and its Empires
- ASH 3223 The Modern Middle East

Note: Relevant new or special topics courses in philosophy, humanities, or other relevant areas may be substituted for some required courses with prior approval by department advisor.

5. Honors in the Major

Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hours)

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

UCF Degree Programs

6. Departmental Exit Requirements

- **Either** HUM 4970H: Honors Thesis (3 hrs) **or** organization and submission of a portfolio (HUM 4393 - 1 hr) of one's work in humanities to a Departmental committee for approval prior to graduation.
- Earn a "C" (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4393, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters or equivalent proficiency exam. 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 hours

Related Programs: Philosophy, Humanities, Liberal 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.

INDUSTRIAL ENGINEERING (B.S.I.E.)

**College of Engineering and Computer Science
Industrial Engineering & Management Systems (IEMS)
Department**

ENG/ 312, 407-823-2204, Fax: 407-823-3413

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

Bill Thompson, E-Mail: wthompso@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, **Orientation**, found elsewhere in this catalog.

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 (38 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs **A.** through **E.** below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College

Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations	9 hrs
1. Take ENC 1101	
2. Take ENC 1102	
3. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).	
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.	
2. Take STA 3032 (3 hrs).	
Note: Calculus II is the prerequisite for this course.	
D. Social Foundations	6 hrs
1. Take ECO 2013 or ECO 2023.	
2. Take ANT 2000, PSY 2012, or SYG 2000.	
E. Science Foundations	7 hrs
1. Take PHY 2048/48L.	
2. Prefer either GEO 1200 or GEO 2370.	

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses	GEP	
Social Science Courses	GEP	
Humanities or Social Sciences	GEP	

3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 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 and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1111C	Engineering Computer Graphics	2 hrs
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3210	Engineering Analysis & Computation	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3358	Thermo-Fluids-Heat Transfer or	
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engrng	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
EGN 4624	Engineering Administration	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EIN 3304	Introduction to IE & MS	2 hrs
EIN 3314C	Work Measurement & Design	3 hrs
EIN 3354	Principles of Cost Engineering	3 hrs
EIN 4118C	IE Applications of Computers	3 hrs
EIN 4243C	Human Engineering	3 hrs
EIN 4333C	Industrial Control Systems	3 hrs
EIN 4364C	Industrial Planning & Design	3 hrs
EIN 4391C	Manufacturing Engineering	3 hrs
ESI 4221	Empirical Methods for IE	3 hrs
ESI 4234	Quality Engineering	3 hrs
ESI 4312	Operations Research	3 hrs
ESI 4523C	Systems Simulation	3 hrs

4. Approved Technical Electives (3 hrs)

Technical electives are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- EIN 4116C Systems Analysis & Design 3 hrs
- EIN 4891C IE Senior Design Project 3 hrs
- Take the Engineering Intern Exam during the 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 hours

Related Programs: Mechanical Engineering.

Related Minors: none

Transfer Notes:

- 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 with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Industrial Engineering - 128 semester hours required

FIRST YEAR

Fall	12 hrs ^{1,2}	Spring	12 hrs ^{1,2}
*CHS 1440 Fund of Chm/Engrs	4	*ENC 1102 English Comp II	3
*ENC 1101 English Comp I	3	*MAC 2282 Calc Sci & Eng II	4
*MAC 2281 Calc Sci & Eng I	4	EGN 1007C Eng Conc&Meth	1
EGN 1006 Intro to Eng	1	*PHY 2048/L Phys Engr/Sci I	4

Summer 9 hours¹

EGN 3210 Eng Anal-Comp	3
*SPC 1016 Tech Presentations	3
*ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3

SECOND YEAR

Fall	13 hrs ¹	Spring	12 hrs ¹
*PHY 2049/L Phys Engr/Sci II	4	EGN 3321 Engr Anal-Dynamics	3
EGN 3310 Engr Anal-Statics	3	*MAP 2302 Diff Equations	3
EIN 3304 Intro to IE & Mgt Sys	2	STA 3032 Prob & Stats Engrs	3
*MAC 2283 Calc Sci & Eng III	4	EGN 3373 Prin of Elec Eng	3

Summer 10 hours¹

EGN 3365 Strctr & Prop Matls	3
EGN 3613 Engrng Econ Anal	2
*Social Foundations 2	3
*EGN 1111C Cmptr Graphics	2

THIRD YEAR

Fall	12 hrs	Spring	15 hrs ¹
EIN 3314C Work Meas & Dsgn	3	EIN 4364C Indus Fcty Pln/Dsgn	3
EIN 4118C IE Computer Appl	3	+ESI 4221 Empirical Mthds - IE	3
		+ESI 4523C Systems Simulation	3
EIN 3354 Princ of Cost Engrng	3	+EIN 4243C Human Engrng	3
+ESI 4312 Operations Research	3	EIN 4333C Industrial Cont Sys	3

Summer 9 hours¹

+EGN 4624 Engineering Admin	3
EGN 3358 Therm-Flds-Ht Trans or EGN 3343 Thermodynamics	3
*Cult & Hist Foundations 1b	3

FOURTH YEAR

Fall	12 hrs	Spring	12 hrs
*Science Foundation II	3	EIN 4891C IE Sr. Design Proj	3
EIN 4116C Sys Anal & Dsgn	3	Technical Elective	3
ESI 4234 Quality Engineering	3	*Cultural & History III	3
*Cult & Hist Foundations 1a	3	EIN 4391C Mfg. Engr.	3

Notes:

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- 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.
- Courses with a plus (+) are courses for which an appropriate graduate class substitution can be made. See advisor for accepted substitution list.

Integrated BS/MS Degree Program

The IEMS department offers the Integrated BS/MS Program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BSIE requirements. See advisor for appropriate substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

AS to BS Track

Note: For detailed information about this program, see description in the AS to BS Program section.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

ENGR 207

Coordinator: Bahman Motlagh

407-823-4748 Fax: 407-823-4746

<http://www.ent.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 faculty 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.

1. UCF General Education Program (36 hrs)

A. Communication Foundations (nine hours completed in AS degree program)	9 hrs
B. Cultural and Historical Foundations (3 hrs taken in AS degree program)	9 hrs
C. Mathematical Foundations (completed in AS degree program)	6 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Engineering Technology Core Courses (26 hrs)

ETI 3651C	Computer Applications	3 hrs
CET 3010	Intro to Info Technology	3 hrs
STA 2023	Statistical Methods I	3 hrs
ETI 4448	Applied Proj Mgmt	3 hrs

UCF Degree Programs

ENC 3241	Writing for the Technical Professional	3 hrs
EET 3085C	Electricity & Electronics	4 hrs
CET 3323C	Digital Technology	4 hrs
CET 2364	Systems Applications in C	3 hrs

3. Lower Level Required Courses Taken at Community College (33 hrs)

4. Required Technical Courses (21 hrs)

CET 4427	Applied Database I	3 hrs
CET 3383	Applied Systems Analysis I	3 hrs
CET 4505	Applied Operating Systems I	3 hrs
CET 3752	Intro to Telephony	3 hrs
CET 4483	Intro to Local Area Network	3 hrs
CET 4333	Computer Organization & Design	3 hrs
CET 4748	Wide Area Networks I	3 hrs

5. Technical Electives (12 hrs)

Choose four from the following:

CET 3198C	Digital Systems	3 hrs
CET 4138	Digital Programmable Devices	3 hrs
CET 4931	Current Topics in Technology	3 hrs
CET 4749	Wide Area Network II	3 hrs
MAP 3401	Problem Analysis	3 hrs
CET 4523	Applied Systems Analysis II	3 hrs
CET 4429	Applied Database II	3 hrs
CET 4583	Web Base Systems I	3 hrs
CET 4584	Web Base Systems II	3 hrs
CET 4663	Computer & Networks Security	3 hrs
STA 5937	Data Mining I	3 hrs

6. Departmental Exit Requirements none

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

9. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

Related Programs: none

Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

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 students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year		Spring	
Fall	15 hrs		14 hrs
Humanities	3	CET 3383 Appl Sys Anal I	3
Social Science	3	PSC/PHY XXXX	4
CET 3010 Intro to Info Tech	3	Hum Elective	3
CET 2364 Systems Apps in C	3	CET 3323C Digital Tech	4
Bio Science	3		

Summer		9 hrs	
CET 4333 Comp Org & Design	3		
ENC 3241 Tech Rept Writing	3		
ETI 4448 Applied Proj Mgmt	3		

Senior Year		Spring	
Fall	15 hrs		15 hrs
CET 4505 Appl Oper Sys I	3	Tech Elective	3
CET 4427 Appl Database I	3	CET 4483 Intro to Local Area Net	3
CET 3752 Intro to Telephony	3	STA 2023 Statistical Methods I	3
ETI 3651C Comp Appl	3	CET 4748 Wide Area Networks I	3
Tech Elective	3	Tech Elective	3

INFORMATION TECHNOLOGY (B.S.)

College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201

E-mail: it@seecs.ucf.edu

<http://it.seecs.ucf.edu>

Undergraduate Coordinator: G. Marin 407-823-2341

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 Electrical Engineering and Computer Science at UCF.
- 12 of the 24 Residency hours must be at the 4000-5000 level.

1. UCF General Education Program (37 hrs)

A. Communication Foundations	9 hrs
Select ENC 1101, ENC 1102	
Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2147 Math for Calculus	3 hrs
Select STA 2023, Statistical Methods I	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics or	3 hrs
ECO 2023 Microeconomics	
Select PSY 2012 General Psychology	3 hrs
E. Science Foundations	
Select PHY 2053C College Physics	4 hrs
Select one additional science	3 hrs

2. Common Program Prerequisites (3 hrs)

MAC 2147	Math for Calculus	GEP
STA 2023	Statistical Methods I	GEP
ECO 2013	Macroeconomics	GEP
PSY 2012	General Psychology	GEP
PHY 2053C	College Physics I	GEP
PHI 3626	Ethics in Science and Technology	3 hrs

3. Core Requirements (42 hrs)

COP 3223	C Programming Language	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	3 hrs
COP 3330	Object Oriented Programming	3 hrs
MHF 2104	Foundations of Discrete Mathematics	3 hrs
EEL 3041	Circuit Analysis	3 hrs
EEL 3520	Information Theory	3 hrs
CGS 3269	Computer Architecture Concepts	3 hrs
CGS 2545C	Database Concepts	3 hrs
EEL 4882	Eng. Sys. S/W (Operating Systems)	3 hrs

COP 4610L	OS Laboratory	3 hrs
CET 4483	Intro to Local Area Network Tech.	3 hrs
CDA 4506C	Network Laboratory	3 hrs
COP 4910	Frontiers of Information Technology	3 hrs

A minimum grade of "C" (2.0) must be made on each of the required core courses. EEL 3801 (3 hrs) and EEL 4851 (4 hrs) can substitute for the combined nine hours associated with COP 3223, 3502C, and 3503C.

A three credit internship approved by the Information Technology Program Coordinator can substitute for the Frontiers in Information Technology (COP 4910) requirement.

4. Support Courses (6 hrs)

ENC 3241	Technical Report Writing	3 hrs
CRW 3013	Creative Writing (section for IT majors)	3 hrs

5. Restricted Electives (15 hrs)
 15 hours of upper division courses taken outside of the information technology core requirements. At least nine of these hours must be at or above the 4000 level. The remaining six are at the 3000 level or above. These course are in areas of the student's choosing. The only restriction is on the level of the courses, not the departments from which they come. However, students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby students can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

6. School Exit Requirements

- Complete an exit interview with an assigned faculty advisor
- Computer competency met by completion of major

7. Free Electives (17 hrs)

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 hours

Related Programs: Computer Science, Computer Engineering, Management Information Systems

Related Minors and Certificates: Computer Information Technology, Computer Science

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.

INTERPERSONAL COMMUNICATION (B.A.)

College of Arts and Sciences

Nicholson School of Communication, COM 258,

407-823- 2852,

<http://www.cas.ucf.edu/communication>

E-mail: communication@ucf.edu

K. Phillip Taylor

Admission Requirements

Application to the Nicholson School of Communication needed. Applying student must complete STA 2023 with a "C" (2.0) or better.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students need to apply to the school office to enter this major
- Co-op or internship credit can be used in this major
- 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
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 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 & 1102 Composition	6 hrs
Select SPC 1600 Fund Oral Communication	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Select STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites
 SPC 1600 Fund Oral Communication GEP

3. Specific Program Prerequisites (12 hrs)

STA 2023	Statistical Methods I	GEP
COM 3011C	Communication & Human Relations	3 hrs
COM 3311	Communication Research Methods	3 hrs
Select one of the following:		
CGS 2100C	Computer Fundamentals for Business	3 hrs
CGS 2585C	Desktop/Internet Publishing	3 hrs
CGS 3175	Internet Applications	3 hrs
PUR 4110C	Public Relations Publications	3 hrs

4. Core requirements (12 hrs)

SPC 3301	Interpersonal Comm	3 hrs
SPC 4331	Nonverbal Communication	3 hrs
SPC 4426	Group Dynamics	3 hrs
SPC 4540	Attitudes and Communication	3 hrs

5. Electives (9 hrs)

Select from the following list:

SPC 3513	Argumentation and Debate
SPC 4350	Studies in Listening
COM 3330	Computer Mediated Communication
COM 3701	Humor in Communication
COM 4014	Gender Issues in Communication
COM 4461	Intercultural Communication
COM 4462	Conflict Management
COM 4941	Internship
COM 3XXX	Interviewing Principles and Practices
COM 4XXX	Health Communication
COM 4XXX	Family Communication
COM 4XXX	Communication and Aging
COM 4XXX	Comm Training and Development
COM 4XXX	Communication and Law

6. Upper Division Restricted Electives (9 hrs)

A minimum of nine upper division credit hours selected from Social Science courses in Anthropology, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

7. School Exit Requirements

- Achieve a "C" (2.0) or better GPA in required UCF Communication courses
- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Computer Competency met by a Computer Science course or by departmental assessment

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam.

9. Electives (variable)

Select primarily from upper level courses. May be outside of the School of Communication.

UCF Degree Programs

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 hours

Related Programs: Organizational Communication

Related Minors: Organizational Communication

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.

JOURNALISM (B.A.)

College of Arts and Sciences

Nicholson School of Communication,

COM 252, 407-823-2858,

<http://www.cas.ucf.edu/communication>

E-mail: journalism@ucf.edu

M. Santana

Limited Access program

Admission Requirements

- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
 - October 1, 2003 for Spring 2004
 - February 2, 2004 for Summer 2004
 - July 1, 2004 for Fall 2004
- 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. The GPA cut-off for the previous acceptance cycle was 2.5.
- Admission is not strictly based on GPA.
- Meet a grammar proficiency standard. Students with an "A" in both ENC 1101 and ENC 1102 have satisfied the requirement. All others must pass a grammar proficiency exam administered by UCF.
- Have acceptable keyboard skills.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- The Journalism faculty strongly recommends that majors work for a student newspaper. In addition, majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine. To enroll for credit, 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. A maximum of 3 internship credit hours may be earned within the 120 required for graduation.
- 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 School of Communication.
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 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 & 1102 Composition 6 hrs
 - Select SPC 1600 Fund Oral Communication 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Mathematics 6 hrs
 - (may substitute a higher level math) 3 hrs
 - Select CGS 1060C Intro to Computer Sci or STA 2014C Principles of Statistics 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites

(0 hrs)

SPC 1600 Fund Oral Communication GEP

3. Core requirements

(30 hrs)

- JOU 3004 History of American Journalism 3 hrs
- JOU 2100C* News Reporting 3 hrs
- JOU 3101* Advanced News Reporting 3 hrs
- JOU 3200* Editing I 3 hrs
- JOU 3202* Editing II 3 hrs
- JOU 4181* Public Affairs Reporting 3 hrs
- JOU 4300* Feature Writing 3 hrs
- MMC 4200 Mass Communication Law 3 hrs
- MMC 4602 Contemporary Media Issues 3 hrs
- PGY 3610C Photojournalism I 3 hrs

*Prerequisite: Grammar Proficiency Examination and Keyboard Proficiency Test required. Some courses may also require a minimum grade of "C" (2.0) in prerequisite courses.

4. Upper Division Restricted Electives

(3 hrs)

JOU/PGY Elective 3 hrs

5. Required Minor:

(18 hrs minimum)

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 a 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 required UCF Journalism courses. This GPA does not include Restricted Electives in the major or other electives.
- Computer competency met by program admission test

7. Foreign Language Requirements

(0-8 hrs)

Admission: Met by graduation requirement

Graduation: One year or equivalent proficiency exam

8. Electives

(variable)

Select primarily from upper level courses, with school advisor's approval. May be outside of the school.

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 hours

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:

- Courses taken at community colleges do not substitute for Upper Division courses.

- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

LEGAL STUDIES (B.A., B.S.)

College of Health and Public Affairs

HPA I 311, 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

Undergraduate Program Coordinator and Pre-Law Advisor: David Slaughter

E-mail: dslaught@mail.ucf.edu

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- 33 hours of PLA coursework must be taken at UCF
- 2.0 in all PLA work at UCF and overall

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - Select MGF 1106
 - Select CGS 1060C
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core Requirements (18 hrs)

- PLA 3013 Law and the Legal System 3 hrs
- PLA 3104 Legal Research 3 hrs
- PLA 3155 Legal Writing 3 hrs
- PLA 3201 Civil Practice and Procedure 3 hrs
- PLA 3610 Property and Real Estate Law 3 hrs
- PLA 4935 Capstone: Legal Issues 3 hrs

4. Upper Division Restricted Electives (24 hrs)

24 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 requirement; 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)

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 hours

Related Programs: Business Administration, Criminal Justice, History, Political Science, Public Administration, Sociology

Related Minors: Business Administration, Criminal Justice, Political Science, Public Administration, Sociology

Transfer Note:

Courses taken at community colleges do not substitute for Upper Division courses.

Minor

The Legal Studies Minor consists of 21 or more semester hours. Required courses: PLA 3013 plus a minimum of 15 semester hours of legal studies courses and three semester hours of law-related courses selected with the aid of an advisor.

Tentative Course Schedule for Entering Freshmen

Freshman Year*		14/15 hrs	Spring	12/13 hrs
Fall				
	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
	For. Lang. I <i>or</i> B. S. option	3/4	<i>or</i> ECO 2023	
	PAF 2102	2	For. Lang. II <i>or</i> B.S. option	3/4
*Plan your required nine summer hours into your course of study				

Sophomore Year		15 hrs	Spring	15 hrs
Fall				
	ANT 2511 <i>or</i> GLY 1030	3	PSC 1121 <i>or</i> CHM 1020	3
	<i>or</i> GEO 1200		PLA 3013	3
	SPC 1600	3	One Course: ARH 2050	3
	EUH 2000 <i>or</i> HUM 2211	3	ARH 2051, MUL 2010, THE	
	<i>or</i> AMH 2010	3	1020, REL 2300, PHI 2010,	
	Elective	3	LIT 2110, LIT 2120	
	Elective	3	EUH 2001 <i>or</i> HUM 2230	3
			<i>or</i> AMH 2020	
			Elective	3

Summer	3 hrs
Elective	3

Junior Year		15 hrs	Spring	15 hrs
Fall				
	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	

UCF Degree Programs

PLA Elective	3	PLA 4935	3
Internship or PLA Elective	3	Internship or PLA Elective	3
Supporting Elective	3	PLA Elective	3
Elective/minor	3	Elective/minor	3
Elective/minor	3	Elective	3

LIBERAL STUDIES (B.A., B.S.)

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

Liberal Studies is a university-wide program leading to either the Bachelor of Arts or the Bachelor of Science in Liberal Studies, depending on the majority of course areas selected in consultation with a Liberal Studies advisor.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that there are many combinations of courses which meet the needs of individual students.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each restricted elective course
- Students must consult with a Liberal 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

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course)	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites **none**

3. Restricted Electives **(36 hrs)**

- Students must complete two different subject area concentrations from among those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
- See the Liberal Studies Advising Team for details regarding each area

Arts

Behavioral and Social Sciences

Biological Sciences

Business

Communication

Computer Science

Education

Engineering

Health

Hospitality Management

Humanities

Languages

Letters

Mathematical Sciences

Physical Sciences

Public Affairs

4. Required Minor **(18 hrs minimum)**

Student must complete a minor from those offered at UCF. The minor cannot overlap with the two subject areas. Minimum hours 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.

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 met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

6. 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: One year college language or equivalent proficiency exam.

Graduation-BS: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension

Note: Students entering without having met the admission requirements must do so in order to graduate

7. Electives **(variable)**

Select primarily from upper level courses, with Liberal Studies 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 hours**

Related Programs: Computer Information Technology Track, Liberal Arts Track, Environmental Studies Track, Women's Studies Track

Related Minors: Most UCF minors

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 and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - COMPUTER INFORMATION TECHNOLOGY TRACK (B.S.)

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

College of Engineering and Computer Science

School of Electrical Engineering and Computer Science, CSB 201

E-mail: computerscience@ucf.edu

Mark Llewellyn, 407-823-2341

There are numerous opportunities in industry for qualified people to work in the broad area of Information Technology (IT). Computer Science represents only a part of this IT umbrella. Students can go beyond a narrower technical focus to include system, network, and database administration; business principles and behavior; social science behavior and theories; and other areas.

This LS-CIT track fills the gap between the fully accredited degree program in Computer Science which emphasizes the scientific aspects of computing, and the needs of the IT industry for people with skills in broader areas of information technology. By completing this track within Liberal Studies, students can accentuate those areas of computer information and application, while de-emphasizing the mathematical and physical science components of Computer Science.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Students must earn at least a "C" (2.0) in each restricted elective and minor course
- Students should consult with departmental advisors within both the Liberal Studies program and Computer Science when entering the program
- 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
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Required Minor in CIT (36 hrs)

- Students must complete a minor in Computer Information Technology (CIT). See the CIT minor for requirements.

4. Restricted Electives (18 hrs)

- Students must complete a minimum of 18 hours of approved courses in one Liberal Studies subject area from those listed below (excluding GEP courses) of which a minimum of nine hours must be UCF hours and a minimum of nine upper level hours
- Students are strongly encouraged to take upper level courses in each area
- See the Liberal Studies Advising Team for details regarding each area

Arts

Behavioral and Social Sciences

Biological Sciences

Business

Communication

Education

Engineering

Health

Hospitality Management

Humanities

Languages

Letters

Mathematical Sciences

Physical Sciences

Public Affairs

5. Program Exit Requirements

- A grade of "C" or above (2.0) is required for each course taken in the subject areas and the CIT minor
- Computer Competency is met by CIT minor.

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: One semester or equivalent proficiency exam, or one course with a multicultural dimension

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 Liberal Studies 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 hours**

Related Programs: Computer Science, Liberal Arts Track, Environmental Studies Track, Women's Studies Track, Digital Media

Related Minors: None

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 and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - ENVIRONMENTAL STUDIES TRACK (B.S.)

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Internship credit cannot be used in this major without prior written permission of a Liberal Studies advisor
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies

UCF Degree Programs

areas. Non-approved independent studies will not be counted towards the major

- Co op credit cannot be used in this major.
- Students must earn at least a "C" (2.0) in each required course in the core and subject areas
- Students should consult with a Liberal 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.

1. UCF General Education Program (36 hrs)

(Note: The italicized courses fulfill both the program requirements and the GEP. These required selections may raise the total GEP hours.)

- | | |
|---|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 6 hrs |
| Select MAC 2311 Calculus | |
| (PR: MAC 1105 and MAC 1114 or equivalent) | |
| Select STA 2023 Statistical Methods I | |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |
| Select BSC 2010C General Biology | |
| Select CHM 2045C Chemistry Fundamentals | |
| (PR: High school chemistry or CHM 1031) | |

2. Common Program Prerequisites none

3. Core for Environmental Studies (23 hrs)

Note: PHY 2053C College Physics (PR: MAC 1105 and 1114 or equivalent) is required to complete the Environmental Sciences: Sciences concentration

- | | | |
|-----------------------------------|--|-------|
| A. Physical/Mathematical Sciences | | |
| CHM 2045C | Chemistry Funds I & Lab | GEP |
| MAC 2311 | Calculus (or equivalent) | GEP |
| CHM 2046 | Chemistry Fundamentals II & Lab | 4 hrs |
| CHM 2205 | Introduction to Organic & Biochemistry | 5 hrs |
| B. Life Sciences | | |
| BSC 2010C | General Biology | GEP |
| BSC 2011C | Biological Diversity | 4 hrs |
| | (PR: BSC 2010C) | |
| PCB 3034 | Principles of Ecology & Lab | 4 hrs |
| & 3034L | (PR: BSC 2010C and BSC 2011C) | |
| C. Social Science & Humanities | | |
| PHI 3640 | Environmental Ethics | 3 hrs |
| SYD 4510 | Environmental Sociology | 3 hrs |

4. Subject Area: Environmental Studies Fundamentals (16 hrs)

- | | | |
|-----------|--------------------------------------|-------|
| IDS 3150 | Foundations of Environmental Studies | 3 hrs |
| ECO 33303 | Economics and the Environment | 3 hrs |
| GEO 3151C | GIS for Environmental Studies & Lab | 4 hrs |
| | or equivalent | |
| PUP 3203 | Environmental Politics | 3 hrs |
| IDS 4156 | Solving Environmental Problems | 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 Liberal Studies - Environmental Studies track majors.

- | | | |
|-----------|---|--|
| BCH 4053 | Biochemistry I | |
| | (PR: CHM 2210 & 2211) | |
| BCH 4054 | Biochemistry II | |
| | (PR: BCH 4053) | |
| BOT 3152C | Local Flora | |
| BOT 4303C | Plant Kingdom | |
| BSC 4312C | Marine Biology | |
| CHM 3120C | Analytical Chemistry | |
| CHM 4615 | Environmental Chemistry | |
| EES 3004 | Environmental Systems | |
| ENV 3001 | Introduction to Environmental Engineering | |
| ENV 3001 | Intro to Env Engr | |
| | (PR: CHM 2046 & MAC 2312) | |
| MCB 3020C | General Microbiology | |
| MCB 4603 | Environmental Micro | |
| | (PR: MCB 3020C) | |

- | | |
|-----------|----------------------------|
| PCB 3023 | Molecular Cellular Biology |
| PCB 4302C | Physiochemical Limnology |
| PCB 4303C | Biological Limnology |
| PCB 4723 | Animal Physiology |
| PCB 3314 | Florida Natural History |
| PCB 3314 | Marine Biodiversity |
| PCB 3063 | Genetics |
| PCB 3442 | Florida Aquatic Ecology |
| PCB 4683 | Population Biol & Evolu |
| | (PR: PCB 3063) |
| PCB 4723 | Animal Physiology |
| | (PR: PCB 3023) |
| PCB 5045C | Conservation Biology |
| | (PR: PCB 3063) |
| PCB 5326C | Ecosystems of Florida |
| ZOO 5815 | Zoogeography |
| | (PR: 8 hours of ZOO) |

Prerequisites listed are those which are not already included in the GEP or Section II: Core for Environmental Studies.

Values, Planning, & Policy Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies

- | | |
|---------------|--------------------------------------|
| track majors. | |
| ANT 3541 | Biobehavioral Anthropology |
| BOT 3800 | Ethnobotany |
| ECO 4302 | Economics of the Environment |
| ECP 4603 | Urban and Regional Economic Prob |
| ECS 4013 | Economic Development |
| ENC 3211 | Theory/Prac Tech Writing* |
| ENC 3241 | Writing/Technical Professional* |
| EGN 4033 | Technology and Social Change |
| ETI 3671 | Technical Economic Analysis |
| ETI 4635 | Technical Administration |
| GEO 4131C | Remote Sensing of Environment |
| INR 4351 | International Environmental Law |
| PAD 4351 | Issues in Environmental Program Mgmt |
| PHI 3033 | Philosophy, Religion, & the Environm |
| PHI 4400 | Philosophy of Science |
| PUP 4503 | Government and Science |
| PHI 4633 | Ethics and Biological Science |
| PHM 4031 | Environmental Philosophy |
| PLA 4631 | Land Use and Environmental Law |
| PUP 4204 | Sustainability |
| PUP 4209 | Urban Environmental Policy |
| PUP 4XXX | GIS for Political Scientists |
| PUP 4503 | Government and Science |
| STA 4163 | Stat Methods II* |
| STA 4164 | Stat Methods III* |
| STA 4165 | Stat Methods II - Computer emphasis* |
| STA 4222 | Sample Survey Methods* |

*Note: Not more than 9 of the 18 credits required can be taken in the "Modes of Analysis and Communication" area as identified by asterisks.

Technology Concentrations

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

- | | |
|----------|------------------------------|
| ETI 3671 | Technical Economic Analysis |
| ETI 4635 | Technical Administration |
| EGN 4033 | Technology and Social Change |
| EGN 4813 | Science in History |
| EGN 4814 | Technology in History |
| EGN 4816 | Technology Analysis |
| EGN 4824 | Energy & Society |
| EGN 4825 | Environment & Society |

Central Florida Environment Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors. A separate application for this specialization is required. GPA must be no lower than 3.5 in at least 30 upper division credits of this program, letters from two faculty sponsors, and an internship or international experience tied to a government or non-profit agency, a business, or a faculty grant project. Students must take an internship and directed research for at least 18 credits total:

- | | | |
|-----------|--------------------------|---------|
| IDS 4XXY | Internship | 6-9 hrs |
| IDS 4XXZ | International Experience | 3-6 hrs |
| IDS 4XXX | Directed Research | 3 hrs |
| IDS 4970H | Thesis | 3 hrs |

6. Program Exit Requirements (0-8 hrs)

- A grade of "C" or above (2.0) is required for all courses taken in each of 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: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension

- Select CGS 1060C Intro to Computer Sci *or*
- STA 2014C Principles of Statistics *or*
- STA 1060C Statistics Using Excel
(may substitute a higher level computer science or statistics course)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

8. Electives (variable)

Select primarily from upper level courses, with advisor approval

2. Common Program Prerequisites

None

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)

3. Core Requirements

(6 hrs)

- Approved course in ethics 3 hrs
- Approved course in critical thinking 3 hrs

4. Restricted Electives

(42 hrs)

- Complete a minor from those offered within UCF's College of Arts and Sciences 18 hrs
- Complete an approved individualized minor 24 hrs which must be developed with a Liberal Studies advisor

5. Program Exit Requirements

(6 hrs)

- IDS 49XX Directed Reading/Research 3 hrs
- IDS 4970H Thesis 3 hrs

Total Required Hours 120 hours

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
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

- Maintain a minimum GPA of 3.5 in all Liberal Arts Track courses
- Maintain a minimum GPA of 3.2 in all upper division courses
- Computer Competency met by IDS 4970H

6. Foreign Language Requirements

(0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters of college language or equivalent proficiency exam.

7. Electives

(variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

LIBERAL STUDIES - LIBERAL ARTS TRACK (B.A.)

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

The Liberal Arts Track is an honors-linked Bachelor of Arts degree program available to students seeking an individualized, interdisciplinary, non-traditional major. The degree program is administered by the Office of Liberal and Interdisciplinary Studies within the College of Arts and Sciences.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each restricted elective course
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must consult with a Liberal Studies advisor before entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor

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 hours

Related Programs: Liberal Studies Track, CIT Track, Environmental Studies Track, Women's Studies Track

Related Minors: All College of Arts and Sciences minors

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 and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - Select MGF 1106 Finite Mathematics
(may substitute a higher level math)

UCF Degree Programs

LIBERAL STUDIES - WOMEN'S STUDIES TRACK (B.A.)

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

Women's Studies Program

Liberal and Interdisciplinary Studies Office, CNH 201

<http://pegasus.cc.ucf.edu/~womenst/>

E-mail: womenst@pegasus.cc.ucf.edu

Lisa Logan, 407-823-6502

Liberal Studies - Women's Studies track is a broadly based interdisciplinary curriculum which leads to the Bachelor of Arts degree in Liberal Studies. The program is administered through the Office of Liberal and Interdisciplinary Studies, and the Women's Studies Program in the College of Arts and Sciences.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Liberal Studies major - Women's Studies track at least one semester before graduation.
- Internship credit cannot be used in this track without prior permission.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Co op credit cannot be used in this track.
- Students must earn at least a "C" (2.0) in each restricted elective course.
- Students should consult with a Liberal 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.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
 - Select STA 1060C Statistics Using Excel *or* STA 2014C Principles of Statistics (may substitute a computer science or higher level statistics course)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Restricted Electives (36 hrs)

- Students must complete either the Womanist/Women of Color subject area or the Women's Studies Cognate subject area
- Students must complete one subject area from those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses)
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined

First Study Area (or select Women's Studies Cognate Area)

Womanist/Women of Color Area: (18 hrs)

- WST 3XXX Women of Color/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
 - LIT 3354 Ethnic Literature in America
 - SYD 3751 North American Indian Women Today

Other courses approved by the Liberal Studies Advising Team

Second Study Area (or select Womanist/Women of Color Area)

Women's Studies Cognate Area:

(18 hrs)

Select 18 hours from the following courses:

- | | |
|-----------|--|
| AML 3614 | Topics in African-American Literature |
| AML 4261 | Literature of the South |
| ANT 3212 | Peoples of the World |
| CCJ 4463 | Cultural Diversity in Criminal Justice |
| CCJ 4681 | Domestic Violence and the Justice System |
| EUH 3242 | Modern Europe and the First World War |
| EUH 5937* | Social Theory/History* |
| HSC 3593C | CHIV Disease: A Human Concern |
| LIN 4643 | Cross Cultural Communication |
| LIT 3354 | Ethnic Literature in America |
| LIT 555*6 | Feminist Theory* |
| 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 4734 | 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.

2nd Study Area (from those below)

See the Liberal Studies Advising Teams for details regarding each area

Arts

Behavioral and Social Sciences

Biological Sciences

Business

Communication

Computer Science

Education

Engineering

Health

Hospitality Management

Humanities

Languages

Letters

Mathematical Sciences

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-BA: Met by graduation requirement

Graduation-BA: One year college language or equivalent proficiency exam

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 Liberal Studies advisor's approval. May be outside of Women's Studies.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hours**

Related Programs: Liberal Studies - Liberal Studies track; Liberal Studies - Liberal Arts track

Related Minors: Anthropology in Multicultural 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 and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES ACCELERATED PROGRAM (B.A./B.S. and M.A./M.S.)

Accelerated Undergraduate/Graduate Program

Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Programs" section of this *Undergraduate Catalog*.

MANAGEMENT (B.S.B.A.)

College of Business Administration

BA 240, 407-823-2184

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

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100C Computer Fundamentals for Bus	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3 hrs
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 MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

3. Required for All Business Majors (30 hrs)

Common Body of Knowledge

First Semester in the College of Business Administration:		
GEB 3031	Cornerstone	6 hrs
GEB 3356	Introduction to Internation Business	3 hrs
First or subsequent semesters depending on major:		
BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs

4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
- Students wanting to major in Management must apply for admission to the major
- Students must take 60 semester hours in courses outside the College of Business.
- 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. Majors

Students may choose from four management track. Within the Management major, students can concentrate in 4 areas of study. Courses for each are outlined below:

1. Human Resource Management Track (24 hrs)

Required Courses		(9 hrs)
MAN 3301	Human Resource Management	3 hrs
MAN 4240	Organizational Theory and Behavior	3 hrs
BUL 4540	Employment Law	3 hrs
Elective Courses		(15 hrs)
MAN 4101	Human Relations in Management	3 hrs
MAN 4310	Personnel Issues	3 hrs
MAN 4320	Recruitment and Selection	3 hrs
MAN 4330	Compensation Administration	3 hrs
MAN 4350	Training and Development	3 hrs
MAN 4401	Labor Relations Management	3 hrs
MAN 4941	Internship	3 hrs

2. 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 (take three additional MAN courses)		(9 hrs)
MAN Elective		3 hrs
MAN Elective		3 hrs
MAN Elective		3 hrs

3. Management Track: International Business (9 hrs)

Required Courses*		9 hrs
MAN 4240	Organizations: Theory and Behavior	
GEB 4MMM	Global Strategic Management	
MAN 3301	Management of Human Resources	

Required International Courses** (9-15 hrs)

ACG 4252	International Accounting
ECO 4701	The Global Economy
FIN 4604	International Financial Management
MAN 4600	International Management
MAR 4156	International Marketing

Electives*** (3-9 hrs)

MAN 4101	Human Relations in Management
MAN 4350	Training and Development
MAN 4310	Personnel Management Issues
MAN 4330	Compensation Administration
MAN 4320	Human Resources Recruitment and Selection
MAN 4401	Human Relations Management

* Required for BSBA-MAN-IB track

** Required international + electives must add up to 18 hours

*** IB 2000 may be used for up to six credit hours. Other approved internship or independent studies may be used for up to three credit hours.

- **Note:** the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

4. Entrepreneurship Track

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or

UCF Degree Programs

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 hours

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.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level 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.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS

Freshman			
Fall	15 hrs	Spring	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100C*	3

Must complete nine hours in a summer semester

Sophomore			
Fall	15 hrs	Spring	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

HUMAN RESOURCE MANAGEMENT MAJOR

Junior			
Fall	15 hrs	Spring	15 hrs

GEB 3031	6	BUL 4540	3
GEB 3356	3	MAN 3301	3
MAR 3023	3	ECO 3411	3
MAN 3025	3	FIN 3403	3
BUL 3130	3		

Senior			
Fall	15 hrs	Spring	15 hrs
***Elective	3	MAN 4720	3
MAN 4350	3	MAN 4330	3
MAN 4401	3	MAN 4101	3
MAN 4320	3	MAN 4310	3
MAN 4240	3	***Elective	3

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

GENERAL MANAGEMENT MAJOR

Junior			
Fall	15 hrs	Spring	15 hrs
GEB 3031	6	ISM 3011	3
***Elective	3	MAR 3023	3
ISM 3530	3	ECO 3411	3
MAN 3025	3	FIN 3403	3
BUL 3130	3		

Senior			
Fall	15 hrs	Spring	15 hrs
GEB 3356	3	MAN 4720	3
MAN 4240	3	MAN 4600	3
MAN 4701	3	MAN 4101	3
-MAN Elective	3	-MAN Elective	3
-MAN Elective	3	***Elective	3

- Three MAN Electives to be selected by student

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)

College of Business Administration

BA 240, 407-823-2184

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

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100C Computer Fundamentals for Bus	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics <i>or</i>	3 hrs
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 2.5 or better.

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

* At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (30 hrs)

Common Body of Knowledge

First Semester in the College of Business Administration:			
GEB 3031	Cornerstone	6 hrs	
GEB 3356	Introduction to Internation Business	3 hrs	
First or subsequent semesters depending on major:			
BUL 3130	Legal & Ethical Environments of Business	3 hrs	

ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
MAR 3023	Marketing	3 hrs
ISM 3011	Essentials of Management Info Sys	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs

4. Special college and/or department requirements:

- Students must complete 60 semester hours in courses outside the College of Business
- 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 2.5 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 College of Business Administration Common Body of Knowledge courses and 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 (21 hrs)

ISM 3005	MIS Techniques	3 hrs
ISM 4113	Information Systems Analysis & Design	3 hrs
ISM 4130	Information Systems Implementation	3 hrs
ISM 4212	Database Management Systems	3 hrs
ISM 4220	Distributed Information Systems	3 hrs
ISM 4300	Information Technology Management	3 hrs
ISM 4400	Decision Support Systems	3 hrs
Plus two of the following: (6 hrs)		
Any 3000 or 4000 level ISM prefix course, excluding those listed in the minor.		
Any 3000 or 4000 level Computer Science prefix course (CDS, CGS, COP, COT).		
MAN 4240	Organizational: Theory & Behavior	3 hrs
May substitute the following with department approval:		
ACG 4401	Accounting Information Systems	
FIN 4453	Financial Models	

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 hours

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. This includes the areas of MIS, 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.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

Freshman			
Fall	15 hrs	Spring	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100C*	3

Must complete nine hours in a summer semester

Sophomore			
Fall	15 hrs	Spring	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			
Fall	15 hrs	Spring	15 hrs
GEB 3031	6	MAR 3023	3
ISM 3011	3	ISM 4400	3
ISM 3005	3	ISM 4212	3
GEB 3356	3	ISM 4220	3
		ECO 3411	3

Senior			
Fall	15 hrs	Spring	15 hrs
ISM Elective	3	MAN 4720	3
FIN 3403	3	ISM 4300	3
ISM Elective	3	ISM 4130	3
MAN 3025	3	ISM Elective	3
ISM 4113	3	BUL 3130	3

****General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.*

UCF Degree Programs

MARKETING (B.S.B.A.)

College of Business Administration

BA 240, 407-823-2184

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

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)
 - A. Communication Foundations 9 hrs
 - B. Cultural and Historical Foundations 9 hrs
 - C. Mathematical Foundations
 - Select MAC 1105 College Algebra 3 hrs
 - Select CGS 2100C Computer Fundamentals for Bus 3 hrs
 - D. Social Foundations
 - Select ECO 2013 Macroeconomics *or* ECO 2023 Microeconomics 3 hrs
 - 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 MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

3. Required for All Business Majors (30 hrs)

Common Body of Knowledge

First Semester in the College of Business Administration:

- | | | |
|----------|--|-------|
| GEB 3031 | Cornerstone | 6 hrs |
| GEB 3356 | Introduction to International Business I | 3 hrs |

First or subsequent semesters depending on major:

- | | | |
|----------|--|-------|
| BUL 3130 | Legal & Ethical Environments of Business | 3 hrs |
| ECO 3411 | Quantitative Business Tools II | 3 hrs |
| FIN 3403 | Business Finance | 3 hrs |
| MAN 3025 | Management of Organizations | 3 hrs |
| ISM 3011 | Essentials of Management Information Systems | 3 hrs |

- | | | |
|----------|-----------|-------|
| MAR 3023 | Marketing | 3 hrs |
|----------|-----------|-------|

Last Semester:

- | | | |
|----------|----------------------|-------|
| MAN 4720 | Strategic Management | 3 hrs |
|----------|----------------------|-------|

4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in Marketing must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students majoring in Marketing must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.
- Students must complete 60 semester hours in courses outside the College of Business.

5. Required Courses (18 hrs)

- | | | |
|----------|---------------------------------|-------|
| MAR 3391 | Professional Selling | 3 hrs |
| MAR 3503 | Customer Behavior | 3 hrs |
| MAR 3613 | Marketing Analysis and Research | 3 hrs |
| MAR 3641 | Marketing Intelligence | 3 hrs |
| MAR 4803 | Marketing Management | 3 hrs |
| MAR 4804 | Marketing Strategy | 3 hrs |

6. Restricted Electives (9 hrs)

Minimum of 3 courses required

- | | | |
|-----------|---------------------------------------|-------|
| MAR 3323 | Integrated Marketing Communication | 3 hrs |
| MAR 3403 | Sales Force Management | 3 hrs |
| MAR 3880 | E-Marketing | 3 hrs |
| *MAR 4156 | International Marketing | 3 hrs |
| MAR 4231 | Retailing Management | 3 hrs |
| MAR 4711 | Sport Marketing | 3 hrs |
| MAR 4712 | Healthcare Marketing | 3 hrs |
| *MAR 4724 | Strategic Found. in Global e-Business | 3 hrs |
| MAR 4841 | Services Marketing | 3 hrs |
| MAR 4941 | Marketing Internship | 3 hrs |

* either MAR 4156 or MAR 4724 (not both) may be taken as an elective.

7. Marketing Track: International Business

Required Courses*

- | | | |
|----------|---------------------------------|-------|
| MAR 3503 | Consumer Behavior | 9 hrs |
| MAR 3613 | Marketing Analysis and Research | |
| MAR 4803 | Marketing Management | |

Required International Courses**

- | | | |
|----------|--|----------|
| ACG 4252 | International Accounting | 9-12 hrs |
| ECO 4701 | The Global Economy | |
| FIN 4604 | International Financial Management | |
| MAN 4600 | International Management | |
| MAR 4156 | International Marketing <i>or</i> | |
| MAR 4724 | Strategic Foundations in Global e-Business | |

Electives***

- | | | |
|----------|------------------------------------|---------|
| MAR 3323 | Integrated Marketing Communication | 3-9 hrs |
| MAR 3391 | Professional Selling | |
| MAR 3403 | Sales Force Marketing | |
| MAR 3641 | Marketing Intelligence | |
| MAR 3880 | E-Marketing | |
| MAR 4231 | Retailing Management | |
| MAR 4711 | Sport Marketing | |
| MAR 4712 | Healthcare Marketing | |
| MAR4804 | Marketing Strategy | |
| MAR 4841 | Services Marketing | |

* Required for BSBA-MAN-IB track

** Required international + electives must add up to 18 hours

*** IB 2000 may be used for up to six credit hours. Other approved internship or independent studies may be used for up to three credit hours.

- **Note:** the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

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 hours

Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or take the small business consulting class (MAR 5941). MAR 5941 cannot count as one of the three restricted electives required of marketing majors. For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: <http://www.bus.ucf.edu/mar/>.

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.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - MARKETING

Freshman			
Fall	15 hrs	Spring	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100C	3

Must complete nine hours in a summer semester

Sophomore			
Fall	15 hrs	Spring	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			
Fall	15 hrs	Spring	12 hrs
GEB 3031	6	MAR 3503	3
GEB 3356	3	MAR 3613	3
MAR 3023	3	ECO 3411	3
MAN 3025	3	FIN 3403	3

Summer	9 hrs
ISM 3011	3
MAR 3641	3
MAR Elective	3

Senior			
Fall	12 hrs	Spring	12 hrs
BUL 3130	3	MAN 4720	3
MAR 4803	3	MAR 4804	3
MAR 3391	3	***Elective	3
MAR Elective	3	MAR Elective	3

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

MATHEMATICS-APPLIED TRACK (B.S.)

College of Arts and Sciences

Department of Mathematics, MAP 207 407-823-6284

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students

in the Honors Program. These courses are with an H such as MAC 2311H, MAC 2312H, MAC 2313H, MAC 2281H, MAC 2282H, MAC 2283H, 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, 2312, 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
- Students should take MAS 3105 (Elementary Linear and Matrix Algebra) before taking MAS 3106 (Linear Algebra). MAS 3105 will then be used as a free elective
- 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 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2311 Calculus I	4 hrs
Select COP 3502C Computer Science I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select BSC 2010C General Biology	4 hrs
Select PHY 2048 & L Physics for Sci & Eng I	4 hrs

2. Common Program Prerequisites (11 hrs)

COP 3223	C Language	3 hrs
MAC 2311	Calculus I	GEP
MAC 2312	Calculus II	4 hrs
MAC 2312	Calculus III	4 hrs
BSC 2010C*	General Biology	GEP
PHY 2048* & L	Physics for Sci & Eng I & Lab	GEP

*See Transfer Notes for possible substitutes

3. Core requirements (48 hrs)

PHY 2049 & L	Physics for Sci & Eng II & Lab	4 hrs
One course selected from		3 hrs
ENC 3241	Technical Report Writing	
ENC 3310	Magazine Writing	
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 3106	Linear Algebra	4 hrs
(MAS 3105 is a prerequisite course)		
Select one course		3 hrs
MAD 4203	Combinatorics & Graph Theory	
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	3 hrs

4. Restricted Electives (10 hrs)

Applied Elective	3 hrs
Select from COT 4210, COT 4110, COT 5310, COT 5405, COT 5507, COT 5510, EGN 3310, EGN 3321, EGN 3343, EGN 3373	
Upper division restricted	4 hrs
Upper division or graduate mathematics or statistics courses or from COT 5510 or COT 4210. (MAC 2233, 2253, 2254 and MHF 4404 may not be used.)	
Biological or physical sciences restricted	3 hrs
Select from PCB 3023, PCB 3034, PCB 3063, PCB 4302C, PCB 4303C, PCB 4723, CHM 3410,	

UCF Degree Programs

CHM 3411, CHM 5580, 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, and take an Educational Testing Service major field test.
- Computer Competency met by COP 2200

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 hours

Related Programs: Applied Math, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

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:

- COP 3223* may use any programming language course with a COP prefix
- BSC 2010C*: may use any laboratory BSC or CHM course which is designed for majors
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

MATHEMATICS - COMPUTATIONAL TRACK (B.S.)

College of Arts and Sciences

Department of Mathematics, MAP 207, 407-823-6284

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, MAC 2281H, MAC 2282H, MAC 2283H, 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, 2312, 2313 (or MAC 2281, 2282, 2283), and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Students must complete one full sequence of calculus; either Calculus with Analytic Geometry (MAC 2311, 2312, 2313) or Calculus for Engineers and Scientists (MAC 2281, 2282, 2283). Only complete calculus sequences will be accepted.

- 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 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2311 Calculus I	4 hrs
Select COP 3502C Computer Science I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select BSC 2010C General Biology	4 hrs
Select PHY 2048 & L Physics for Sci & Engr I	4 hrs

2. Common Program Prerequisites (11 hrs)

COP 3223*	C Language	3 hrs
MAC 2311**	Calculus I	GEP
MAC 2312**	Calculus II	4 hrs
MAC 2313**	Calculus III	4 hrs
BSC 2010C*	General Biology	GEP
PHY 2048*&L	Physics for Sci & Eng I w/lab	GEP

*See Transfer Notes for possible substitutes

**At UCF the calculus sequence MAC 2281, 2282, 2283 is preferred as a substitute for the sequence MAC 2311, 2312, 2313. However, students who plan to transfer to another institution within the SUS may want to take the sequence MAC 2311, 2312, 2313 to ensure transferability.

3. Basic Core Requirements (10 hrs)

COP 3502C	Computer Science I	GEP
PHY 2049&L	Physics for Sci & Eng II w/lab	4 hrs
STA 2023	Statistical Methods I	3 hrs
MAP 2302	Differential Equations	3 hrs

4. Advanced Core Requirements (42 hrs)

Select one course		3 hrs
MHF 3302	Logic and Proof in Mathematics	
COT 3100C	Intro to Discrete Structures	
ENC 3241	Technical Report Writing	3 hrs
MAS 3106	Linear Algebra	4 hrs
MAD 4203	Combinatorics & Graph Theory	4 hrs
MAP 4307	Appl of Complex Variables	3 hrs
MAP 4363	Appl Boundary Value Prob I	3 hrs
STA 4321	Statistical Theory I	3 hrs
MAP 4364	Appl Boundary Value Prob II	3 hrs
COP 3503C	Computer Science II	3 hrs
STA 4322	Statistical Theory II	3 hrs
MAA 4226	Advanced Calculus I	4 hrs
COT 4500	Numerical Calculus	3 hrs
Select one course		3 hrs
MAP 4103	Mathematical Modeling	
MAP 4153	Vector and Tensor Analysis	

5. Restricted Electives (18 hrs)

Select six upper division courses		
COP 3402C	Systems Software	3 hrs
COP 3530C	Computer Science III	3 hrs
CDA 4150	Computer Architecture	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs
COT 4210	Discrete Computational Structures	3 hrs
or any MAA, MAD, MAP, MAS, or MTG upper division courses		

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C.

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 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

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:

- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM course which is designed for majors.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHEMATICS - ENGINEERING/ PHYSICS TRACK (B.S.)

College of Arts and Sciences

Department of Mathematics, MAP 207, 407-823-6284

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, MAC 2281H, MAC 2282H, MAC 2283H, 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, 2312, 2313 (or MAC 2281, 2282, 2283), and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Students must complete one full sequence of calculus; either Calculus with Analytic Geometry (MAC 2311, 2312, 2313) or Calculus for Engineers and Scientists (MAC 2281, 2282, 2283). Only complete calculus sequences will be accepted.
- 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 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MAC 2311 Calculus I 4 hrs
 - Select COP 3502C Computer Science I 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
 - Select BSC 2010C General Biology 4 hrs
 - Select PHY 2048 & L. Physics for Sci & Engr I 4 hrs

2. Common Program Prerequisites (11 hrs)

- COP 3223* C Language 3 hrs
- MAC 2311** Calculus I GEP
- MAC 2312** Calculus II 4 hrs
- MAC 2313** Calculus III 4 hrs
- BSC 2010C* General Biology GEP
- PHY 2048*L Physics for Sci & Eng I w/lab GEP

*See Transfer Notes for possible substitutes

**At UCF the calculus sequence MAC 2281, 2282, 2283 is preferred for the Engineering and Physics majors as a substitute for the sequence MAC 2311, 2312, 2313. However, students who plan to transfer to another institution within the SUS may want to take the sequence MAC 2311, 2312, 2313 to ensure transferability.

3. Basic Core Requirements (10 hrs)

- COP 3502C Computer Science I GEP
- PHY 2049&L Physics for Sci & Eng II w/lab 4 hrs
- Select one course 3 hrs
 - STA 3032 Prob. & Stats for Engineers
 - STA 2023 Statistical Methods I
 - MAP 2302 Differential Equations 3 hrs

4. Advanced Core Requirements (54 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
 - EML 3034 Modeling Meth in Mech. & Aero Eng
 - PHZ 3151 Computer Methods in Physics
- MAP 4153 Vector and Tensor Analysis 3 hrs
- MAP 4307 Appl of Complex Variables 3 hrs
- MAP 4363 Appl Boundary Value Prob I 3 hrs
- MAP 4364 Appl Boundary Value Prob II 3 hrs
- MAA 4226 Advanced Calculus I 4 hrs
- EGN 3321 Engineering Analysis - Dynamics 3 hrs
- Select one course 3 hrs
 - EGN 3420 Engineering Analysis
 - COT 4500 Numerical Calculus
- Select one course 4 hrs
 - MAS 3106 Linear Algebra
 - MAD 4203 Combinatorics & Graph Theory
- Select one course 3 hrs
 - EGN 3310 Engineering Analysis - Statics
 - PHY 3221 Mechanics I
- Select one course 3 hrs
 - EGN 3373 Principles of Electrical Engineering
 - PHY 3101 Physics for Eng & Sci III
- Select one course 4 hrs
 - CHS 1440 Fund. of Chemistry for Eng.
 - CHM 2045C Chemistry Fundamentals
 - or any MAA, MAD, MAP, MAS, or MTG course
- Select one course 3 hrs
 - EGN 3358 Thermo-Fluids-Heat Transfer
 - PHY 3503 Thermal & Statistical Physics
 - or any MAA, MAD, MAP, MAS, or MTG course
- 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)
 - EIN 4118C Industrial Applications of Computers
 - PHZ 3113 Intro. to Theoretical Methods of Physics
 - or any MAA, MAD, MAP, MAS, or MTG course
- Select one course 3 hrs
 - EGN 3331 Mechanics of Materials
 - CHM 2046 Chemistry Fundamentals II
 - ESI 4312 Operations Research
 - EML 3601 Solid Mechanics
 - EML 4220 Vibration Analysis
 - EEL 3004 Electrical Networks

UCF Degree Programs

PHY 4605	Wave Mechanics II	3 hrs
or any MAA, MAD, MAP, or MAS course		
Select one course		
CES 4100C	Structural Analysis I	
EGN 3331	Mechanics of Materials	
EIN 3304	Intro. to Indust. Eng. & Mngmnt Sys	
EAS 3101	Aerodynamics I	
EML 3601	Solid Mechanics	
EEL 3004	Electrical Networks	
or any PHY, PHZ, AST, MAA, MAD, MAP, or MAS course		

5. Restricted Electives (9 hrs)

Select three courses	
STA 4321	Statistical Theory I
STA 4322	Statistical Theory II
PHY 3323	Electricity & Magnetism I
PHY 4324	Electricity & Magnetism II
EGN 3365	Structure & Property of Materials
EGN 3613	Engineering Economic Analysis
EGN 3704	Engineering & the Environmental
EEL 3342C	Intro. to Digital Circuits and Systems
EEL 3801C	Intro. to Computer Engineering
EEL 3657	Linear Control Systems
EML 4142	Heat Transfer
EML 3312C	Feedback Control
EML 3262C	Kinematics and Mechanisms
EAS 4200	Flight Structures
EAS 4400	Spacecraft Attitude Dynamics
EAS 4505	Orbital Mechanics
EAS 4105	Flight Mechanics
EML 4703	Fluid Mechanics II
EMA 4223	Deformation and Fracture of Materials
CWR 4203C	Hydraulics
CWR 4101C	Hydrology
ENV 4561	Environmental Eng Processes & Design
ESI 4234	Quality Engineering
ESI 4523C	Systems Simulation
EIN 4333C	Industrial Control Systems
EEL 3470	Electromagnetic Fields
EEL 3552C	Signal Analysis and Communications
EEL 4750	Digital Signal Processing Fund.
EEL 4767C	Computer System Design I
EEL 4832	Eng. Applications of Computer Models
EEL 4851C	Engineering Data Structures
or any MAA, MAD, MAP, or MAS course	

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, and take an Educational Testing Service major field test.
- Computer Competency met by EGN 3420 or COP 3502C.

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 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science,

Engineering, Math, Physics, Statistics

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:

- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM course which is designed for majors.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHEMATICS - PURE TRACK (B.S.)

College of Arts and Sciences

Department of Mathematics, MAP 207 407-823-6284

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, MAC 2281H, MAC 2282H, MAC 2283H, 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, 2312, 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 should take MAS 3105 (Elementary Linear and Matrix Algebra) before taking MAS 3106 (Linear Algebra). MAS 3105 will then be used as a free elective.
- 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 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2311 Calculus I	4 hrs
Select COP 3502C Computer Science I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select BSC 2010C General Biology	4 hrs
Select PHY 2048 & L Physics for Sci & Eng I (PR:MAC 2311)	4 hrs

2. Common Program Prerequisites (11 hrs)

COP 3223*	C Language	3 hrs
MAC 2311	Calculus I	GEP
MAC 2312	Calculus II	4 hrs
MAC 2313	Calculus III	4 hrs
BSC 2010C*	General Biology	GEP
PHY 2048* & L	Physics for Sci & Eng I & Lab	GEP
*See Transfer Notes for possible substitutes		

3. Core requirements (48 hrs)

PHY 2049 & L	Physics for Sci & Eng II & Lab	4 hrs
One course selected from		3 hrs
ENC 3241	Technical Report Writing	
ENC 3310	Magazine Writing	
ENC 3311	Advanced Expository Writing	

STA 2023	Statistical Methods	3 hrs
MHF 32302	Logic and Proof in Mathematics	3 hrs
MAP 2302	Differential Equations	3 hrs
MAS 3106	Linear Algebra (MAS 3105 is a prerequisite course)	4 hrs
MAP 4363	Applied Boundary Value Prob I	3 hrs
STA 4321	Statistical Theory I	3 hrs
MAS 4301	Algebraic Structures	3 hrs
STA 4322	Statistical Theory II	3 hrs
COP 3502C	Computer Science I	GEM
MAA 4226	Advanced Calculus I	4 hrs
MAA 4227	Advanced Calculus II	3 hrs
MAD 4203	Combinatorics & Graph Theory	4 hrs
MTG 4302	Introduction to Topology	3 hrs
MAP 4307	Appl to Complex Variables	3 hrs

4. Restricted Electives (7 hrs)

Math or Statistics restricted
4 hrs
Upper division or graduate mathematics or statistics courses or from COT 4500, COT 5510, or COT 4210. (MAC 2233, 2253, 2254, and MAA 5210 may not be used.)

Biological or physical sciences restricted
3 hrs
Select from PCB 3023, PCB 3034, PCB 3063, PCB 4302C, PCB 4303C PCB 4723, CHM 2045C, 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, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C

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 hours

Related Programs: Statistics, Applied Math, Computer Science, Engineering, Math Education

Related Minors: Computer Science, Engineering, Math, Physics, Statistics

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:

- COP 3223*: may use any programming course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM course which is designed for majors
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

MATHEMATICS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor, 407-823-5791

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

Coordinator: Doug Brumbaugh, 407-823-2045,

E-mail: brumbad@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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program

(37 hrs)

A. Communication Foundations		(9 hrs)
ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations		(9 hrs)
AMH 2010	U.S. History 1492-1877	3 hrs
AMH 2020	U.S. History 1877-Present	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations		(7 hrs)
MAC 2311	Calculus with Analytic Geometry I	4 hrs
STA 2023	Statistical Methods I	3 hrs
D. Social Foundations		(6 hrs)
POS 2041	American National Government	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations		(6 hrs)
PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	

Note: See laboratory component under Section 2.

2. Common Program Prerequisites

(31 hrs)

A. Communications		(9 hrs)
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities		(6 hrs)
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	
C. Mathematics		(11 hrs)
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
STA 2023	Statistical Methods I	GEP
D. Social Science/History		(12 hrs)
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science		(10 hrs)
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		1 hr
BSC 1005L	Biological Principles Laboratory <i>or</i>	
GEO 1200L	Physical Geography Laboratory <i>or</i>	
PSC 1121L	Physical Science Laboratory	
F. Education Courses		(9 hrs)
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP
H. Other Program Prerequisites		(4 hrs)

UCF Degree Programs

MAC 2313 Calculus with Analytic Geometry III 4 hrs
 Note: student should consult advisor regarding course options.

3. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
LAE 4361	Literacy Strategies for Mid/High School	3 hrs

4. Internship I (ESE 3940) (3 hrs)

- EDG 4323 and at least 50% of all required mathematics courses must be completed before doing Internship I
- See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (37 hours)

MAP 2302	Differential Equations	3 hrs
MAP 4103	Mathematical Modeling	3 hrs
MAS 4301	Algebra Structure	3 hrs
MAD 4203	Combinatorics & Graph Theory	4 hrs
MAE 4360	Mathematics Instructional Analysis	4 hrs
MAE 4634	Programs in Teaching Mathematics	3 hrs
MAS 3105	Elementary Linear and Matrix Algebra	4 hrs
MAS 3202	Number Theory	3 hrs
MHF 3302	Logic and Proof in Mathematics	3 hrs
MHF 4404	History of Mathematics	3 hrs
MTG 4212	Modern Geometry	4 hrs

6. Internship II (ESE 4943) (12 hrs)

- At least 80% of all required mathematics courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- 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 6A-5.065

Note: Internship II includes a 3 SH module on assessment

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.
- 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.

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
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Semester Hours Required 128 hours

MECHANICAL ENGINEERING (B.S.M.E.)

College of Engineering and Computer Science
 Mechanical, Materials & Aerospace Engineering
 Department, ENGR 307, 407-823-5828,

Fax: 407-823-0208,
<http://www.mmae.ucf.edu>

A. H. Hagedoorn, ENGR 307,
 E-Mail: hagedorn@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

Degree Requirements

- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student must 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 (38 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

- | | |
|---|-------|
| A. Communication Foundations | 9 hrs |
| 1. Take ENC 1101 | |
| 2. Take ENC 1102 | |
| 3. Prefer SPC 1016 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 7 hrs |
| 1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs). | |
| Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions. | |
| 2. Take STA 3032 (3 hrs). | |
| Note: Calculus II is the prerequisite for this course. | |
| D. Social Foundations | 6 hrs |
| 1. Take ECO 2013 <i>or</i> ECO 2023. | |
| 2. Take ANT 2000, PSY 2012, <i>or</i> SYG 2000. | |
| E. Science Foundations | 7 hrs |
| 1. Take PHY 2048/48L. | |
| 2. Take either GEO 1200 <i>or</i> GEO 2370. | |

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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 2281	Calculus for Scientists & Engineers I (MAC 2311 will substitute see above)	GEP
MAC 2282	Calculus for Scientists & Engineers II (MAC 2312 will substitute see above)	4 hrs
MAC 2283	Calculus for Scientists & Engineers III (MAC 2313 will substitute see above)	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

3. Courses Required for the Major (49 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the senior design courses listed in 4. below. Independent study courses generally do **not** satisfy major requirements and normally are awarded grades of S or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1111C	Engineering Computer Graphics	2 hrs
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engrng	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EML 3034	Modeling Methods in MMAE	3 hrs
EML 3303C	Mechanical Engrng Measurements	3 hrs
EML 3312C	Feedback Control	3 hrs
EML 3500	Machine Design & Analysis	3 hrs
EML 3601	Solid Mechanics	3 hrs
EML 3701	Fluid Mechanics I	3 hrs
EML 4142	Heat Transfer	3 hrs
EML 4220	Vibration Analysis	3 hrs
EML 4535C	Introduction to CAD/CAM	3 hrs

Select one of the following three options for your senior year to complete your BSME. See your ME advisor for assistance in making this selection.(16 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
Restricted Mechanical Systems Elective		3 hrs
Approved Electives		8 hrs
- b. **Mechanical Systems Option**

EMA 3012C	Experimental Techniques in Mechanics & Materials	2 hrs
EML 3262C	Kinematics of Mechanisms	3 hrs
EML 3804C	Digital Control in Mechatronics	3 hrs
Restricted Energy Systems Elective		3 hrs
Approved Electives		8 hrs
- c. **Materials Option**

EMA 3012C	Experimental Techniques in Mechanics & Materials	2 hrs
EMA 3124	Structure & Properties of Alloys	3 hrs
EMA 4223	Deformation & Fracture of Materials	3 hrs
Restricted Mechanical Systems Elective		3 hrs
Approved Electives		8 hrs

4. Departmental Graduation Requirements (6 hrs)

- EML 4501C Engineering Design I or
- EGN 4XX1 Interdisciplinary Design I 3 hrs
- EML 4502C Engineering Design II or
- EGN 4XX2 Interdisciplinary Design II 3 hrs
- CECS encourages all engineering students to take the Engineering Intern Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

6. Approved Restricted and Technical Electives

Technical electives are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their assigned academic advisor for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the

CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hours

Related Programs: Aerospace Engineering, Industrial Engineering.

Related Minors: Space Studies.

Transfer Notes:

- 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 with his/her petition for this evaluation.
- EGN 1006C and EGN 1930 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.

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.

Mechanical Engineering - 128 semester hours³ required

FIRST YEAR

Fall	15 hrs ^{1,2}	Spring	15 hrs ^{1,2}
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 or CHM 2045C w/lab	4	*MAC 2282 Calc Sci&Eng II or MAC 2312 Calc II	4
*MAC 2281 Calc Sci&Eng I or MAC 2311 Calc I	4	*PHY 2048 Phys Eng I w/lab	4
*ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3	*SPC 1016 Oral Comm for Eng or SPC 1600 Oral Comm	3
Summer 10 hrs^{1,2,4}			
*MAC 2283 Calc Sci&Eng III or MAC 2313 Calc III	4		
*Social Foundations	3		
*Cult & Hist Foundations	3		

SECOND YEAR

Fall	15 hrs ¹	Spring	15 hrs
EGN 1111C Engr Comp Graph	2	EGN 3321 Engr Anal-Dynamics	3
*MAP 2302 Diff Equations	3	(PR: EGN 3310, CR: MAC 2283 or MAC 2313)	
EGN 3310 Engr Anal-Statics (PR: PHY 2048, CR: MAC 2281 or MAC 2312)	3	EGN 3365 Strctr & Prop Matls (PR CHS 1440 or CHM 2045C & MAC 2282 or MAC 2312)	3
*PHY 2049 Phys Eng II w/lab	4	EGN 3343 Thermodynamics (PR: MAP 2302, CR: EGN 3321)	3
STA 3032 Prob & Stats/Engrs	3	EML 3034 Mod Mthds/MMAE (PR: MAP 2302, High Lev Prog Lang.; CR: EGN 3321)	3
		EGN 3373 Prin of Elec Engr (PR: PHY 2049, CR: MAP 2302)	3

THIRD YEAR

Fall	15 hrs ¹	Spring	15 hrs
EML 3601 Solid Mechanics (PR: EGN 3310, CR: MAP 2302)	3	EML 4220 Vibration Analysis (PR: EGN 3321, EML 3601)	3
EML 3701 Fluid Mechanics I (PR: MAP 2302, EGN 3343)	3	EML 3500 Mach Dsgn/Anal (PR: EML 3601)	3
EML 3312C Feedback Cont (PR: EGN 3321, 3373, MAP 2302)	3	EML 4142 Heat Transfer (PR: EML 3701)	3
EML 3303C Mech Engr Meas (PR: EML 3601, EGN 3343)	3	*Cult & Hist Foundations 2	3
*Science Foundations 2	3	EML 4535C CAD/CAM (PR: EGN 1111C, 3601, EML 3034 CR: EAS 4200 or EML 3500)	3

FOURTH YEAR

I. ENERGY SYSTEMS OPTION			
Fall	14 hrs ^{1,3}	Spring	14 hrs ^{1,3}
EML 3101 Thermo Mech Sys (PR: EGN 3343)	3	EML 4502C Eng Design II or (PR: EML 4501C)	3
EML 4703 Fluid Mechanics II (PR: EML 3701)	3	EGN 4XX2C Inter Design II (PR: EGN 4XX1C)	3
EML 4501C Eng Design I or (PR: EML 3500, 3701)	3	EML 4304C Meas Therm Sys (PR: EML 3303C, 4142)	3
EGN 4XX1C Inter Design I		Approved Elective	3
EGN 4XX1C Inter Design I (PR: EML 3500, 3701)		Approved Elective	2
		*Cult & Hist Foundations 2	3

UCF Degree Programs

Approved Elective	2
Restricted Mechanical Systems Elect	3

II. MECHANICAL SYSTEMS OPTION

Fall	14 hrs ^{1,3}	Spring	14 hrs ^{1,3}
EML 3262C Kinem Mechnsms (PR: EGN 3321)	3	EML 4502C Eng Design II or (PR: EML 4501C)	3
EML 4501C Eng Design I or (PR: EML 3500, 3701)	3	EGN 4XX2C Inter Deisgn II (PR: EGN 4XX1C)	3
EGN 4XX1C Inter Design I (PR: EML 3500, 3701)	3	EML 3804C Mechatronics (PR: EML 4535C, CR: EML 3312C)	3
Restricted Energy Systems Elect	3	EMA 3012C ExpTec Mech/Mtl (PR: EGN 3365, EML 3601)	3
Restricted Energy Systems Elect	3	Approved Elective	3
Approved Elective	2	*Cultural & Hist Foundations	3
Approved Elective	3		

III. MATERIALS OPTION

Fall	14 hrs ^{1,3}	Spring	14 hrs ^{1,3}
EML 3101 Thermo Mech Sys (PR: EGN 3343)	3	EML 4 502C Eng Design II or (PR: EML 4501C)	3
EML 4501C Eng Design I or (PR: EML 3500, 3701)	3	EGN 4XX2C Inter Design II (PR: EGN 4XX1C)	3
EGN 4XX1C Inter Design I (PR: EML 3500, 3701)	3	EMA 4223 Dfrmatn Frct Mtls (PR: EGN 3365)	3
EMA 3124 Struct/Props Alloys (PR: EGN 3365)	3	EMA 3012C ExprTech (PR: EGN 3365, EML 3601)	2
Restricted Mechanical Systems Elect	3	Approved Elective	3
Approved Elective	2	*Cult & Hist Foundations	3

Notes:

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- All students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable.
- Students should consult with the MMAE Department in ENGR 381 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 their faculty advisor frequently to ensure they are making satisfactory progress toward their degree.
- The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
- Mechanical engineering students must earn at least 32 hours in residence at UCF.

Important Notice

- Bolded** course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.
- A number of **bolded** courses are given only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.
- Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- Please meet with your advisor if you have any questions regarding your schedule. Do not drop any course before discussing this action with your advisor - there may be alternative actions which will benefit you.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034 ("C" or FORTRAN recommended).
- If you are not ready to begin the Calculus sequence upon entry to the Mechanical Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

Integrated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated BS/MS Program to students of high academic standing. This program allows up to nine graduate hours to be sub-

stituted for specified BS requirements. See advisor for appropriate substitutions.

MEDICAL LABORATORY SCIENCES (B.S)

College of Health and Public Affairs

HPA2 335, 407-823-2968

<http://www.cohpa.ucf.edu/molec.bio/>

Undergraduate Program Director: Dorilyn Hitchcock

E-mail: hitchcod@mail.ucf.edu

Admission Requirements - Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

- Separate application** to the *limited access program* should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.
- UCF application must also be submitted by the program deadline. Acceptance to UCF is necessary before acceptance to the program can occur.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0) (No TSD credit may be used for prerequisite courses)

Degree Requirements

- The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisite Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program
- UCF Residency Requirement: 32 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (38 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select CGS 2100C and STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
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 Fund'tals I&II w/labs	GEP, 4 hrs
STA 2023	Statistical Methods I	GEP
ZOO 3733C	Human Anatomy and Lab*	4 hrs
CHM 2210, 2211	Organic Chemistry I&II w/labs	8 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3703C	Human Physiology and Lab*	4 hrs

* see Transfer Notes

3. Core Requirements	(63 hrs)
MLS 3220C	Clinical Microscopy with lab 3 hrs
MLS 4625	Advanced Clinical Chemistry I 3 hrs
MLS 4630	Advanced Clinical Chemistry II 3 hrs
PCB 3233	Immunology with Lab 3/1 hrs
MLS 4430C	Clinical Parasitology 2 hrs
MLS 3305	Hematology with Lab 3/1 hrs
MLS 4505C	Immunodiagnosics 3 hrs
MLS 4910	Intro to Clinical Research 1 hr
MLS 4550	Clinical Immunohematology 4 hrs
MLS 4460	Clinical Pathogenic Microbiology and Mycology 5 hrs
MLS 4334C	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
MLS 4834C	Advanced Instrumentation 4 hrs
CGS 2100C	Computer Fundamentals for Business 3 hrs

4. Upper Division Restricted Electives **none**

5. Departmental Exit Requirements **(126 hrs)**

- A minimum 2.5 overall GPA is required for clinical assignment.
- The Degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University's didactic component and the clinical component in affiliated hospital laboratories
- Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and then qualify for State Licensure
- Students must earn a grade of "C" (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation

6. Electives **none**

7. Foreign Language Requirements **(0-8 hrs)**

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **126 hours**

Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

Related Minors: Biology, Chemistry

Transfer Notes:

Community College Equivalencies
Human Anatomy and Physiology I & II
(BSC 2093C and 2094C) **8 hrs**

Tentative Course Schedule for Entering Freshmen

Freshman Year			
Fall	16 hrs	Spring	14 hrs
ENC 1101	3	ENC 1102	3
MAC 1105	3	BSC 2010C	4
SPC 1600	3	CHM 2046	3
CHM 2045C	4	CHM 2046L	1
CGS 2100C	3	ANT 2000 or SYG 2000 or PSY 2012	3
Summer			
STA 2023	3 hrs		3

Sophomore Year			
Fall	13 hrs	Spring	17 hrs
POS 2041 or ECO 2013	3	CHM 2211	3
CHM 2210	3	CHM 2211L	2
ZOO 3733C	4	MCB 3020C	5
EUH 2000 or HUM 2211 or AMH 2010	3	PCB 3703C	4
		EUH 2001 or HUM 2230 or AMH 2020	3

Summer	3 hrs		
MUL 2010 or THE 2000 or REL 2300 or PHI 2010	3		

Junior Year			
Fall	12 hrs	Spring	14 hrs
MLS 3220C	3	MLS 3305C/L	3/1
MLS 4625	3	MLS 4630	3
PCB 3233/L	3/1	MLS 4505C	3
MLS 4430C	2	MLS 4550	4

Summer	8 hrs		
MLS 4830C	4		
MLS 4831C	4		

Senior Year			
Fall	13 hrs	Spring	12 hrs
MLS 4460	4	MLS 4833C	4
MLS 4420C	1	MLS 4834C	4
MLS 4910	1	MLS 4933	2
MLS 4832C	4	MLS 3705	3
MLS 4334C	3		

MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)

College of Health and Public Affairs

HPA2 335, 407-823-5932

<http://www.cohpa.ucf.edu/molec.bio/>

Chair: P.E. Kolattukudy

E-Mail: pkolattu@mail.ucf.edu

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- No TSD credit may be used for major requirements
- Grades below "C-" (1.75) in life science courses will not be accepted
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program **(36 hrs)**

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs
Select BSC 2010C	
Select CHM 2045C	

2. Common Program Prerequisites **(22 hrs)**

BSC 2010C	General Biology I	GEP
BSC 2011C	Biological Diversity	4 hrs
CHM 2045C, 2046, 2046L	General Chemistry I, II, + Lab	GEP, 4 hrs
CHM 2210, 2211, 2211L	Organic Chemistry I, II, + Lab	10 hrs
MAC 2311	Calculus with Analytical Geometry I	4 hrs

3. Core Requirements **(39 hrs)**

Life Sciences		
MCB 3020C	General Microbiology	5 hrs

UCF Degree Programs

PCB 3063	Genetics	3 hrs
PCB 3233, 3233L	Immunology + Immunology Lab	4 hrs
PCB 3523, 4524	Molecular Biology I, II	6 hrs
BSC 3404C	Quantitative Biological Methods	4 hrs
Chemistry		
BCH 4053	Biochemistry I	3 hrs
Math* Calculus and Statistics		
MAC 2253 or 2311	Applied Calculus I or Calculus I	3 hrs
STA 2023	Statistical Methods I	GEP
Physics*		
PHY 2053C, 2054C or 2048, 2049C	College Physics I, II	8 hrs
CGS 1060C	Intro to Computer Science	3 hrs

4. Upper Division Restricted Electives (18 hrs)

(Six Courses, of which 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. Either MCB 3203 or MLS 4460, but not both, may be counted.)

BCH 4054	Biochemistry II	3 hrs
BCH 4103L	Biochemical Methods	2 hrs
MCB 3203, 3203L	Pathogenic Microbiology + Lab	4 hrs
MCB 4114C	Microbial Systematics and Diagnostics	4 hrs
MCB 4414	Microbial Metabolism	3 hrs
MCB 4603	Environmental Microbiology	3 hrs
MCB 4970H	Honors Thesis	3 hrs
MCB 5205	Infectious Process	3 hrs
MCB 5225	Molecular Biology of Disease	3 hrs
MCB 5932	Current Topics in Molecular Biology	3 hrs
MCB 5505	Molecular Virology	3 hrs
MCB 5527	Genetic Engineering & Biotechnology	3 hrs
MCB 5654	Applied Microbiology	3 hrs
MLS 3220C	Clinical Microscopy with lab	3 hrs
MLS 3305C	Hematology	3 hrs
MLS 4334C	Hemostasis	3 hrs
MLS 4430C	Clinical Parasitology	2 hrs
MLS 4460	Clinical Pathogenic Microbiology and Mycology	5 hrs
MLS 4505C	Immunodiagnosics	3 hrs
MLS 4625	Advanced Clinical Chemistry I	3 hrs
MLS 4630	Advanced Clinical Chemistry II	3 hrs
PCB 3703C	Human Physiology	4 hrs
PCB 4234	Cellular Immunology	3 hrs
PCB 4805	Endocrinology	3 hrs
PCB 4529	Experimental Molecular Biology	3 hrs
PCB 5275	Signal Transduction Mechanisms	3 hrs
PCB 5238	Immunopathology	4 hrs
PCB 5239	Tumor Biology	3 hrs
ZOO 3701C	Dissection Techniques	2 hrs
ZOO 3733C	Human Anatomy	4 hrs
ZOO 4603C	Vertebrate Embryology	5 hrs
ZOO 4744	Neurobiology	3 hrs
ZOO 4753C	Vertebrate Histology	4 hrs
ZOO 5745C	Essentials of Neuroanatomy	4 hrs

5. Departmental Exit Requirements (81-91 hrs)

To be eligible for a major in Molecular Biology and Microbiology:

- A student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- Independent study, directed research, or similar credit may not be used as a Restricted Elective
- A minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to take a comprehensive test during their last semester

6. Electives (variable)

Suggested Elective: SLS 2311 - Overview of Selected Medical Careers, recommended for students pursuing any of the following fields: chiropractic, dental, medical, optometry, pharmacy podiatry, or veterinary.

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 hours

Related Programs: Biology, Chemistry

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 Human Physiology I & II requirement at the community college (lower division) level **must** take an additional 8 eight hours of upper division coursework at UCF.

Honors in the Major

- Application and admission through the department and THC
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H "Quantitative Biological Methods" with a grade of B or better (4 credits)
- Complete MCB 4970H "Honors Thesis" with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits)

***Note:** Those students interested in pursuing graduate or professional education are strongly advised to select the following courses. Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Applied Calculus I & II (MAC 2253, 2254) or Calculus with Analytic Geometry I & II (MAC 2311, 2312). Directed Research MCB 4912 is offered on an S/U basis.

Tentative Course Schedule for Entering Freshmen

Freshman Year	14 hrs	Spring	17 hrs
Fall			
ENC 1101	3	ENC 1102	3
PSY 2012 or SYG 2000 or ANT 2000	3	CGS 1060C	3
CHM 2045C	4	CHM 2046	3
MAC 1105	3	CHM 2046L	1
SLS 2311*	1	MAC 1114	3
		BSC 2010C	4

*Recommended for preprofessional students.

Sophomore Year

Fall	16/17 hrs	Spring	16 hrs
CHM 2210	3	CHM 2211	3
STA 2023	3	CHM 2211L	2
MAC 2311 or MAC 2253	4/3	MCB 3020C	5
PCB 3233/L	3/1	PCB 3063	3
EUH 2000 or AMH 2010 or WOH 20123		EUH 2001 or AMH 2020 or HUM 2211 or HUM 2230	3

Plan your required 9 summer hours into your course of study

Junior Year

Fall	16 hrs	Spring	13/14 hrs
Restricted Elective	3	BSC 3404C	3
PCB 3523	3	PCB 4524	3
PHY 2053C or PHY 2048 & L	4	PHY 2054C or PHY 2048 & L	4
Restricted Elective	3	Restricted Elective	3/4
ECO 2013 or POS 2041	3		

Senior Year

Fall	12/14 hrs	Spring	12/15 hrs
BCH 4053	3	Restricted Elective	3/4
Restricted Elective	3/4	Restricted Elective	3/4
SPC 1600	3	Elective	3/4
Elective	3/4	MUL 2010 or THE 2000 or REL 2300 or PHI 2010	3

MOTION PICTURE TECHNOLOGY

(See FILM)

MUSIC (B.A.)

College of Arts and Sciences

Department of Music, CNH 205A,

<http://pegasus.cc.ucf.edu/~ucfmusic>

E-mail: music@mail.ucf.edu

TBA; 407-823-2869, Fax 407-823-3378

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods/styles
- Memorization is required for pianists and vocalists
- Accompanists are provided by special request only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, a string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates

Degree 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 perform a faculty-approved public recital
- 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) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program

(see General Education Program for detailed information)

A. Communication Foundations	9 hrs	(36 hrs)
B. Cultural and Historical Foundations		
Select one two-semester sequence	6 hrs	
Select MUH 4212 History and Literature II	3 hrs	
C. Mathematical Foundations	6 hrs	
Select MGF 1106 Finite Mathematics	3 hrs	
(may substitute a higher level math)		
Prefer STA 1060C Statistics Using Excel	3 hrs	
D. Social Foundations	6 hrs	
E. Science Foundations	6 hrs	

2. Common Program Prerequisites

MUT 1111*	Music Theory IA	2 hrs	(24 hrs)
MUT 1112*	Music Theory IB	2 hrs	
MUT 1241*	Ear Training & Sight Singing IA	1 hr	
MUT 1242*	Ear Training & Sight Singing IB	1 hr	
MUT 2116*	Music Theory IIA	2 hrs	
MUT 2117*	Music Theory IIB	2 hrs	
MUT 2246*	Ear Training & Sight Singing IIA	1 hr	
MUT 2247*	Ear Training & Sight Singing IIB	1 hr	
MUN XXXX	Major Ensembles (four semesters)	4 hrs	

(See Specialty requirements for specific requirements and for the credits required)

MVB/MVK/MVP/			
MVS/MVV/MVW	Performance (four semesters)	8 hrs	
MVK 1111-2121*	Class Piano I-II (or proficiency)	0-2 hrs	

*See Transfer Notes for possible substitutes

3. Core Requirements

Piano proficiency		0 hrs	(14 hrs)
(repeat MVK 3131-4141 Class Piano III-IV until passed)			
MUS 1010	Music Forum (six semesters)	0 hrs	
MUT 3571	20th Century Musical Analysis	3 hrs	
MVB/MVK/MVP/			
MVS/MVV/MVW	Performance (two semesters of Level III)	4 hrs	
MUN XXXX	Major Ensembles	2 hrs	
MUG 3104	Basic Conducting	2 hrs	
MUH 4211	History & Literature I	3 hrs	
MUH 4212	History & Literature II	GEP	

4. Specialty Requirements:

(10 hrs)

Piano

MUL 3400	Piano Literature I	2 hrs
MUL 3401	Piano Literature II	2 hrs
Ensemble		
MUN 3453	Piano	2 hrs
Restricted Electives		4 hrs

Voice

FRE 1005	French Diction	1 hr
GER 1005	German Diction	1 hr
ITA 1005	Italian Diction	1 hr
MUL 3603	American/English Song Lit	1 hr
MUL 3604	German Song Literature	1 hr
MUL 3605	French Song Literature	1 hr
Restricted Electives		4 hrs

Woodwinds

Minor Ensemble MUN XXXX		2 hrs
Woodwind Literature		2 hrs
Restricted Electives		6 hrs

Brass

Minor Ensemble MUN XXXX		2 hrs
Brass Literature		2 hrs
Restricted Electives		6 hrs

Percussion

Minor Ensemble MUN XXXX		2 hrs
Percussion Literature		2 hrs
Restricted Electives		6 hrs

Strings

Minor Ensemble MUN XXXX		2 hrs
String Literature		2 hrs
Restricted Electives		6 hrs

5. Restricted Electives (See above)

Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

6. Special Non-Course Requirements

MUS 1010 - Music Forum

- Native UCF students must complete six semesters of MUS 1010
- Transfer students must take MUS 1010 each term they are enrolled at UCF

Comprehensive Exam, Piano - MVK 4960

- Satisfactory completion of a comprehensive examination in piano. To be taken after completing MVK 4141

Comprehensive Exam, Music History - MUH 4963

- Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212 and before enrolling in MUT 3571.

Comprehensive Exams, Music Theory- MUT 2960, MUT 2961, MUT 2962

- Completion, with at least an 80% score on each of the following components; Ear-Training, Sight-Singing, 4-part Writing, Musical Forms, Transposition, Analysis, and Counterpoint.
- Tests are to be taken after completing MUT 2117 and before enrolling in MUT 3571.

Major Ensemble Participation

- Selected from University Chorus, Symphony Orchestra, Concert Band, Wind Ensemble, Women's Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
- Ensemble assignment is by the ensemble directors
- Transfer students must take any remaining major ensemble credits during separate semesters
- Native UCF students must take each of four major ensemble credits in a separate semester
- Students taking a course in performance must concurrently take a major ensemble appropriate to their principle instrument or voice.

Minor Ensemble Participation

- If minor ensemble is taken at UCF, the two semester hours of credit must be completed in two separate semesters
- If minor ensemble credits are transferred to UCF, each remaining hour must be taken in a separate semester
- Minor ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, and Jazz Lab

Recitals

- BA students must complete three of their comprehensive examinations before auditioning for their terminal recital at the Junior level

UCF Degree Programs

- Each BA student must perform one faculty-approved, 30 minute public recital.

7. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Music course
- Computer Competency met by CGS 1060C, or departmental examination

8. Foreign Language Requirements (0-11 hrs)

Admission: Met by graduation requirement

Graduation: Three semesters or equivalent proficiency exam

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 hours

Related Programs: Music Education, Music (BM), 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.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- MUT 1111*, MUT 1112*: May use MUT 1121, MUT 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241*, MUT 1242*: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
- MUT 2116*, MUT 2117*: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 2246*, MUT 2247*: May use MUT 2226, MUT 2227, or MUT 2266, MUT 2267, or MUT 2276, MUT 2277.
- MVK 1111, MVK 2121*: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221

MUSIC EDUCATION (B.M.E.)

College of Arts and Sciences

Department of Music, CNH 205A,

<http://pegasus.cc.ucf.edu/~ucfmusic>

E-mail: music@mail.ucf.edu

A. Holcomb, 407-823-4180, Fax 407-823-3378

E-mail: aholcomb@mail.ucf.edu

Admission Requirements - Music Education-Pending

- Audition. To be accepted into Music Education-Pending, 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 by special request 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.
- Demonstrate professional, vocal, and aural skill proficiency in an

interview with Music Education faculty.

Admission Requirements

- Music Education (Professional Program) Students who wish to be accepted into the Music Education Professional Program must complete the following requirements:
 - Pass 3 out of 5 comprehensive proficiency examinations
 - Have a minimum overall GPA of 2.5 and a grade of "B" 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)
 - Must meet the College of Education's requirements for admission to Internships I and II (see *College of Education, Office of Clinical Experiences*)
 - Pass the Music Education Proficiency (taken during completion of Performance II)

Note: Students who change degree programs and select this major must adopt the most current catalog.

Degree Requirements

1. UCF General Education Program (36 hrs)

- | | |
|--|----------------|
| A. Communication Foundations | (9 hrs) |
| ENC 1101 Composition I | 3 hrs |
| ENC 1102 Composition II | 3 hrs |
| SPC 1600 Fundamentals of Oral Communication | 3 hrs |
| B. Cultural-Historical Foundations | (9 hrs) |
| AMH 2010 U.S. History 1492-1877 | 3 hrs |
| AMH 2020 U.S. History 1877-Present | 3 hrs |
| MUH 4212 History and Literature II | 3 hrs |
| C. Mathematical Foundations | (6 hrs) |
| MGF 1106 Finite Mathematics | 3 hrs |
| Select one: | |
| STA 1060C Basic Statistics Using Excel <i>or</i> | 3 hrs |
| STA 2014C Principles of Statistics | |
| D. Social Foundations | (6 hrs) |
| POS 2041 American National Government | 3 hrs |
| PSY 2012 General Psychology | 3 hrs |
| E. Science Foundations | (6 hrs) |
| PSC 1121 Physical Science | 3 hrs |
| Select one: | |
| ANT 2511 The Human Species <i>or</i> | 3 hrs |
| BSC 1005 Biological Principles | |

Note: See laboratory component under Section 2.

2. Common Program

Prerequisites (19 hrs)

- | | |
|--|-------------------------|
| A. Communications | (9 hrs) |
| ENC 1101 Composition I | GEP |
| ENC 1102 Composition II | GEP |
| SPC 1600 Fundamentals of Oral Communication | GEP |
| B. Humanities | (6 hrs) |
| PHI 2010 Introduction to Philosophy | 3 hrs |
| MUH 4212 History and Literature II | GEP |
| C. Mathematics | (9 hrs) |
| MAC 1105 College Algebra | 3 hrs |
| MGF 1106 Finite Mathematics | GEP |
| One of the following (per GEP) | GEP |
| STA 1060C Basic Statistics using MS Excel <i>or</i> | |
| STA 2014C Principles of Statistics | |
| D. Social Science/History | (12 hrs) |
| AMH 2010 U.S. History 1492-1877 | GEP |
| AMH 2020 U.S. History 1877-present | GEP |
| POS 2041 American National Government | GEP |
| PSY 2012 General Psychology | GEP |
| E. Science | (9 hrs plus Lab) |
| PSC 1121 Physical Science | GEP |
| One of the following (per GEP) | |
| ANT 2511 The Human Species <i>or</i> | |
| BSC 1005 Biological Principles | |
| Select one: | 3 hrs |
| AST 2002 Astronomy <i>or</i> | |
| GEO 1200 Physical Geography <i>or</i> | |
| GLY 1030 Geology and its Applications | |
| Select one associated science lab | 1 hrs |
| BSC 1005L Biological Principles Laboratory <i>or</i> | |
| GEO 1200L Physical Geography Laboratory <i>or</i> | |
| PSC 1121L Physical Science Laboratory | |
| F. Education Courses | (9 hrs) |

EDF 2005	Introduction to Education	3 hrs
Take section designated for Music Education Pending Majors		
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Intro to Educational Technology	3 hrs

G. International/Diversity Courses

3. Other Program Prerequisites

MUN XXXX	Major Ensembles (4 semesters)	4 hrs
MUT 1111	Music Theory IA	2 hrs
MUT 1112	Music Theory IB	2 hrs
MUT 2116	Music Theory IIA	2 hrs
MUT 2117	Music Theory IIB	2 hrs
MUT 1241	Ear Training & Sight Singing IA	1 hr
MUT 1242	Ear Training & Sight Singing IB	1 hr
MUT 2246	Ear Training & Sight Singing IIA	1 hr
MUT 2247	Ear Training & Sight Singing IIB	1 hr
MVK 1111	Class Piano I (or proficiency)	0-1 hr
MVK 2121	Class Piano II	1 hr
MVK 3131	Class Piano III	1 hr
MVK 4141	Class Piano IV	1 hr
MV..XXXX	Performance (4 semesters)	8 hrs

4. Core Requirements

MUN XXXX	Major Ensembles (2 semesters)	2 hrs
MUS 1010	Music Forum (6 semesters)	0 hrs
MV..XXXX	Performance (2 semesters)	4 hrs
MUG 3104	Basic Conducting	2 hrs
MUH 4211	History & Literature I	3 hrs
MUH 4212	History & Literature II	GEP
MUE 2440	String Techniques	1 hr
MUE 2450	Woodwind Techniques	1 hr
MUE 2460	Brass Techniques	1 hr
MUE 2470	Percussion Techniques	1 hr
EDF 4214	Classroom Learning Principles	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDG 4323	Professional Teaching Practices	3 hrs
TSL 4080	Teaching LEP Children	3 hrs
RED 4043	Teaching Reading in the Content Area	3 hrs
ESE 3940	Internship I - Secondary	3 hrs
MUE 4311	Elementary School Music Methods	2 hrs
MUE 4330	Secondary School Music Methods	2 hrs

5. Special Requirements

(15 hrs)

Complete one program:

Program A - Instrumental

MVV 1111	Class Voice (or proficiency)	0-1 hr
MUG 3302	Instrumental Conduct & Materials	2 hrs
MUE 4480C	Marching Band Techniques	1 hr
ESE 4943	Internship II - Secondary	12 hrs

Program B Choral

MUG 3202	Choral Conduct & Materials	2 hrs
MUS 1201	European Diction	1 hr
ESE 4943	Internship II - Secondary	12 hrs

Program C - Elementary School

MVV 1111	Class Voice (for proficiency)	0-3 hrs
MUE 1291	Classroom Instruments	1 hr
MUE 3930	Special Topics in Elementary School Music	2 hrs
ESE 4943	Internship II - Secondary	12 hrs

6. Internships

Internship I: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST and have passed 4 of the 5 music proficiency/comprehensive exams (including the Music Education) before enrolling in 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 the field with half the time in an Elementary setting and half in a Secondary school setting. Components of the experience include directed observation, collaborative planning, guided participation, and collaborative evaluation. Students are expected to provide their own transportation to assigned locations.

Internship II: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST; successfully completed Internship I; and have passed all proficiency/comprehensive exams before enrolling in Internship II. Students are required 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. The semester of student teaching is divided into four types of activities: observing, assisting, teaming, and teaching. Student teachers become involved with children as rapidly as possible, and gradually assume a full responsibility for the classroom to which they have been assigned. As the experience draws to an end, the process should be reversed and supervising teachers take back their classes at convenient program breaks. Students are expected to provide their own transportation to assigned locations.

7. Special Non. - Course Requirements

Note: Contact the Music Education Advisor for details

Music Forum MUS 1010 0 hrs

- Native UCF Students must complete 6 semesters of MUS 1010
- Transfer students must take MUS 1010 each term they are enrolled at UCF, except while taking Internships I & II

Comprehensive Proficiency Exams Comprehensive Exams are given near the end of the semester of the final course in the sequence. Students should enroll in proficiency exams while taking the final course of the sequence.

- Piano - MVK 4960 - take during or after completing MVK 4141
- Music History - MUH 4963 - take during or after completing MUH 4212
- Music Theory - MUT 2962 - take during or after completing MUT 2117
- Ear Training & Sight Singing - MUT 2960, MUT 2961 - take during or after completing MUT 2247
- Music Education Proficiency Exam - take during the completion of the fourth semester of study, or after completing Performance II, Ensemble Participation

Ensemble Participation

- Selected from University Chorus, Symphony Orchestra, Concert Band, Marching Band, and Wind Ensemble. Four hours of Jazz Lab may be used as a Major Ensemble credit
- Ensemble assignment is by the Ensemble directors
- Transfer students must take Major Ensemble during each of their remaining semesters, except when enrolled in Internship II
- Native UCF students must take each Ensemble credit in a separate semester
- Students taking a Performance course must concurrently take an appropriate major ensemble if accepted

Recitals

- Students must complete a minimum of 4 proficiency examinations prior to auditioning for a faculty-approved public recital (optional for students in the Elementary School Music Specialization) Portfolio
- Maintain a Professional Portfolio. The portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

CMENC Membership

- Active participation in CMENC is expected

Music Education Forums

- Attend 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 public schools on a weekly basis. Students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral,

UCF Degree Programs

instrumental) before taking Internship I.

8. Departmental Exit Requirements

- Pass the Professional Education and Subject Area subtests of the Florida Teacher Certification Examination.
- A minimum GPA of 2.5 is required in all courses within the major.
- A grade of "C" (2.0) or better in each music course.
- A grade of "B" (3.0) or better in each performance, education, and music education course.
- Computer competency is met through EME 2040.
- 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

9. 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

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)
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits admitted

11. Total Semester Hours Required 134 hours

Related Programs: Music, Music (BFA), 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.
- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major
- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional course-work to satisfy degree requirements.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- MUE 2040*: May use equivalent course or proficiency
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. **Note:** Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262, or MUT 1271, 1272
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. **Note:** Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

Note: Education majors are required to take six hours (in addition to

EDG 2701) that have an international or diversity focus. While native UCF students complete this requirement as part of the GEP, transfer students must take appropriate courses that have been so designated by their previous institution.

Note: Students must take a Natural Science class with the lab and should select a course that fulfills the GEP requirement.

MUSIC PERFORMANCE (B.M.)

College of Arts and Sciences

Department of Music, CNH 205

<http://pegasus.cc.ucf.edu/~ucfmusic>

E-Mail: music@mail.ucf.edu

407-823-2869, Fax 407-823-3378

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided by special request only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- In addition, composition students must submit a portfolio of compositions representing works in small and/or large forms
- The audition and examination scores will serve as a placement examination for accepted candidates

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- At least 78 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 and composition 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) and 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
B. Cultural and Historical Foundations	
Select one two-semester sequence	6 hrs
Select MUH 4212 History and Literature II	3 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (24 hrs)

MUT 1111*	Music Theory IA	2 hrs
MUT 1112*	Music Theory IB	2 hrs
MUT 1241*	Ear Training & Sight Singing IA	1 hr
MUT 1242*	Ear Training & Sight Singing IB	1 hr
MUT 2116*	Music Theory IIA	2 hrs
MUT 2117*	Music Theory IIB	2 hrs
MUT 2246*	Ear Training & Sight Singing IIA	1 hr
MUT 2247*	Ear Training & Sight Singing IIB	1 hr
MUN XXXX	Major Ensemble (four semesters)	4 hrs
(See Specialty requirements for specific requirements and for the credits required)		
MVB/MVK/MVP/		
MVS/MVV/MVW	Perf or comp (four semesters)	8 hrs
MVK 1111-2121*	Class Piano I-II	0-2 hrs
	(or proficiency)	

*See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)

Piano proficiency	0 hrs	
(repeat MVK 3131-4141 Class Piano III-IV until passed)		
MUS 1010	Music Forum (eight semesters)	0 hrs

MUT 3571	20th Century Musical Analysis	3 hrs
MVB/MVK/MVP/ MVS/MVV/MVW	Performance or composition (four semesters including two semesters of Level IV)	8 hrs
MUN XXXX	Major Ensembles	2 hrs
MUG 3104	Basic Conducting	2 hrs
MUH 4211	History & Literature I	3 hrs
MUH 4212	History & Literature II	GEP

4. Specialty Requirements: (39 hrs)

Piano		
MUL 3400	Piano Literature I	2 hrs
MUL 3401	Piano Literature II	2 hrs
Ensembles		
Major Not required		0 hrs
Minor-MUN 3453 Piano Ensemble		4 hrs
Restricted Electives		31 hrs
Piano Pedagogy		
MUL 3400	Piano Literature I	2 hrs
MUL 3401	Piano Literature II	2 hrs
MVK 4640	Piano Pedagogy I	1 hr
MVK 4641	Piano Pedagogy II	1 hr
MUS 4401	Studio Teaching	2 hrs
Ensembles		
Major Not required		0 hrs
Minor-MUN 3453 Piano Ensemble		4 hrs
Restricted Electives		27 hrs
Guitar		
Ensembles		
Major Not required		0 hrs
Minor-MUN 3483 String Ensemble		4 hrs
Restricted Electives		35 hrs
Voice		
FRE 1005	French Diction	1 hr
GER 1005	German Diction	1 hr
ITA 1005	Italian Diction	1 hr
MVV 4640	Voice Pedagogy I	1 hr
MVV 4641	Voice Pedagogy II	1 hr
MUL 3603	Amer./English Song Literature	1 hr
MUL 3604	German Song Literature	1 hr
MUL 3605	French Song Literature	1 hr
Ensembles		
Major-MUN 3313 University Chorus		8 hrs
Minor-MUN XXXX		4 hrs
Restricted Electives		19 hrs
Woodwinds		
MUN XXXX	Major Ensemble	4 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 3441	Woodwind Literature	2 hrs
MVV 3630	Woodwind Pedagogy	2 hrs
Restricted Electives		27 hrs
Brass		
MUN XXXX	Major Ensemble	4 hrs
MUN XXXX	Minor Ensemble	2 hrs
MUL 3442	Brass Literature	2 hrs
MVB 4640	Brass Pedagogy	2 hrs
Restricted Electives		27 hrs
Percussion		
MUN XXXX	Major Ensemble	4 hrs
MUN XXXX	Minor Ensemble	2 hrs
MUL 3463	Percussion Literature	2 hrs
MVP 3630	Percussion Pedagogy	2 hrs
Restricted Electives		27 hrs
Strings		
MUN XXXX	Major Ensemble	4 hrs
MUN XXXX	Minor Ensemble	2 hrs
MUL 3432	Strings Literature	2 hrs
MVS 4640	Strings Pedagogy	2 hrs
Composition		
MUT 3571	Counterpoint	3 hrs
MUT 5381	Arranging and Composing Music	3 hrs
MUG 3302	Instrumental Conducting & Materials	3 hrs
MUC 3311	MIDI Sequencing I	3 hrs
MUC 4441	MIDI Sequencing II	3 hrs
MUS 4347C	Digital Notation	3 hrs
MUT 3170	Jazz Theory I	2 hrs
Ensembles		
Major		4 hrs
Restricted Electives		19 hrs

5. Restricted Electives (See above)

- Any secondary performance course not in area of major instrument or

- Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

6. Special Non-Course Requirements

MUS 1010 Music Forum

- Native UCF students must complete 8 semesters of MUS 1010
- Transfer students must take MUS 1010 each term they are enrolled at UCF

Comprehensive Exam, Piano - MVK 4960

- Satisfactory completion of a comprehensive examination in piano to be taken after completing MVK 4141.

Comprehensive Exam, Music History - MUH 4963

- Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212.

Comprehensive Exams, Music Theory - MUT 2960, MUT 2961, MUT 2962

- Completion, with at least an 80% score on each of the following components; Ear Training, Sight Singing, 4-part Writing, Musical Forms, Transposition, Analysis, and Counterpoint.
- Tests are to be taken after completing MUT 2117, and before enrolling in MUT 3571.

Major Ensemble Participation

- Selected from University Chorus, Symphony Orchestra, Concert Band, Symphonic Wind Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
- Ensemble assignment is by the Ensemble directors.
- Transfer students must take Major Ensemble during each of their remaining semesters
- Native UCF students must take each Major Ensemble credit in a separate semester:
- 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 four semester hours of credit must be spread over at least three 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, String, Vocal (except Opera Workshop), Woodwind, Jazz, Women's and Early Music Ensemble

Recitals

- Bachelors of Music students must complete their piano proficiency and all but one comprehensive examination before auditioning for their senior recital or preparing for their senior composition recital.
- Each student must perform two faculty-approved public recitals: a junior recital of 30 minutes length and a senior recital of 45 minutes length (30 minutes for Piano Pedagogy students). Composition majors must present original musical compositions by the student.

7. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Music course
- Computer Competency met by CGS 1060C, or departmental examination

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters or equivalent proficiency exam

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

UCF Degree Programs

CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Music Education, Music (BA), 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.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262 or MUT 1271, 1272.
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277.
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

NURSING (B.S.N.)

A. BASIC PROGRAM

(For individuals who are not Registered Nurses)

College of Health and Public Affairs

HPA I 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

Interim Director: Mary Lou Sole

Undergraduate Coordinator: Patricia Leli

E-mail: pleli@mail.ucf.edu

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 School of Nursing prior to February 1 of the year admission is sought for the Orlando Campus and June 1 the prior year for January admission on the Brevard Campus (see information on accelerated second degree program for deadline)
- UCF application must also be submitted by the program deadline
- Student must complete all general education, foreign language, admissions, and program prerequisites prior to the start of the program
- The School 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 generic nursing program. Students with concerns or questions should contact the nursing office for an appointment with a generic faculty advisor.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with a grade of "C" (2.0) or better
- Early acceptance may be offered to First-Time-in-College (FTIC) students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECP). For specific information about early acceptance, contact the School of Nursing.

Graduates are eligible to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing, Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, 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 the nursing major courses are required for continuation and graduation from the Nursing Program
- UCF Residency Requirement: 31 hours
- Any variation from the stated prerequisites must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office.

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
MAC 1105	
Select STA 2014C	
D. Social Foundations	6 hrs
Select both SYG 2000 and PSY 2012*	
Select ECO 2013 or ECO 2023 or POS 2041	
E. Science Foundations:**	6 hrs
Select BSC 2010C	
Select CHM 1032 (and lab)	

* One of these courses is required to meet General Education requirements, but both are required program prerequisites.

** Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (22 hrs)

PSY 2012	General Psychology**	GEF
SYG 2000	Sociology**	3 hrs
MCB 2005C	Health Microbiology	4 hrs
CHM 1032/L	General Chemistry and lab**	GEF
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology*	4 hrs
STA 2014C or 2023	Principles of Statistics**	GEF
SOW 3104	Assessing Human Development or	
DEP 2004	Developmental Psychology	3 hrs
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.

3. Core Requirements (63 hrs)

NUR 3026L	Therapeutic Interv. for Health Prof.	1 hr
NUR 3065	Health Assessment	3 hrs
NUR 3165	Nursing Research	3 hrs
NUR 3235	Promoting Physical & Mental Health	5 hrs
NUR 3235L	Clin Pract in Prom Phys/Mental Health	4 hrs
NUR 3616	Promoting Healthy Families	3 hrs
NUR 3616L	Clinical Pract in Promot Healthy Fam	3 hrs
NUR 3617	Promoting Healthy Communities	3 hrs
NUR 3825	Role of the Professional Nurse	2 hrs
NUR 3198	Pathophysiology & Pharmacology	5 hrs
NUR 4525	Nursing Intervention in Mental Illness	2 hrs
NUR 4525L	Clinical Practice w/ Mentally Ill Client	1 hr
NUR 4636	Community as the Continuum of Care	3 hrs
NUR 4636L	Clinical Pract in Comm.-Orient Nrsng	2 hrs
NUR 4745	Nursing Care of Clients w/ Acute Ill.	4 hrs
NUR 4745L	Clinical Practice in Acute Illness	4 hrs
NUR 4827	Leadership & Management Principles	3 hrs
NUR 4945L	Directed Nursing Practice	4 hrs
NUR 4835	Role Transition	2 hrs
NUR 4837	Health Care Issues, Policy, & Econ	3 hrs
NUR 4XXX	Nursing Elective	3 hrs

Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)

Nursing Elective:
Any School of Nursing Elective

5. Departmental Continuation and Exit Requirements

UCF Degree Programs

- Completion of all courses in major with a grade of "C" (2.0) or better
- UCF GPA of 2.5 or above
 - School 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

121 hours

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 (HUN 1201) or any Human Nutrition course	3

*The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of "C" (2.0) or better is required in all prerequisite courses.

Honors

Honors Option Requires:

- Completion of a three credit directed readings course
- Completion of a three credit thesis course
- Open to students with a minimum 3.5 GPA in Nursing
- Minimum cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Tentative Course Schedule for Entering Freshmen

Freshman Year			
Fall	13 hrs	Spring	14 hrs
SYG 2000	3	CHM 1032/L	3/1
ENC 1101	3	ENC 1102	3
MAC 1105	3	STA 2014C or STA 2023	3
BSC 2010C	4	ZOO 3733C	4
Summer	6 hrs		
HUN 3011	3		
PSY 2012	3		
Sophomore Year			
Fall	13 hrs	Spring	13 hrs
POS 2041 or ECO 2013 or ECO 2023	3	EUH 2001 or HUM 2230	3
EUH 2000 or HUM 2211	3	or AMH 2020 or WOH 2022	
or AMH 2010 or WOH 2012		MCB 2005C	4

PCB 3703C	4	SPC 1600	3
SOW 3104 or DEP 2004	3	(One Course:)	3
		ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120	

Summer (Foreign Lang I)	8 hrs (if not satisfied in high school)
(Foreign Lang II)	4

Junior Year			
Fall	15 hrs	Spring	14 hrs
NUR 3825	2	NUR 3198	5
NUR 3065	3	NUR 3235	5
NUR 3026LL	1	NUR 3235L	4
NUR 3617	3		
NUR 3616	3		
NUR 3616L	3		

Summer A	6 hrs
NUR 3165	3
NUR 3xxx Elective	3

Senior Year			
Fall	14 hrs	Spring	14 hrs
NUR 4745	4	NUR 4835	2
NUR 4745L	4	NUR 4636	3
NUR 4525	2	NUR 4636L	2
NUR 4525L	1	NUR 4837	3
NUR 4827	3	NUR 4945L	4
		Other	

Information about tuition, fees, and length of nursing programs can be obtained from the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006. (800) 669-1656, ext. 153.

NURSING (B.S.N.)

B. RN TO BSN PROGRAM

(Completion program for individuals who are RNs licensed in the State of Florida)

College of Health and Public Affairs

HPA I 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

RN to BSN Coordinator: Linda Hennig

E-mail: lindah@mail.ucf.edu

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 School 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 in the State of Florida (or eligible)
- Progress toward the UCF general education requirements, an AA degree from a Florida Community College, or eligible for the Statewide Articulated AS-BSN Program (see AS to BS)
- Completion of all sections of CLAST (or Exempt)
- A minimum overall GPA of 2.5
- Completion of program prerequisite courses with at least a grade of "C" (2.0) or better

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education Program requirements
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses are required for admission to, continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- The courses designated in sections 1 (General Education) and 2

UCF Degree Programs

(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
 - MAC 1105
 - 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: 6 hrs
 - Student must complete all general education and foreign language admissions requirements prior to NUR 4084. If completing an A.A. to fulfill General Education requirements, it must be awarded **prior** to the last semester at UCF.

2. Common Program Prerequisites 21 hrs

- PSY 2012 General Psychology** GEP 3 hrs
- SYG 2000 Sociology** GEP 3 hrs
- MCB 2005C Health Microbiology GEP 4 hrs
- CHM 1032/L General Chemistry and lab** GEP 4 hrs
- ZOO 3733C Human Anatomy* GEP 4 hrs
- PCB 3703C Human Physiology GEP 4 hrs
- STA 2014C *or* 2023 Principles of Statistics** GEP 3 hrs
- SOW 3104 Assessing Human Development *or* GEP 3 hrs
- DEP 2004 Developmental Psychology GEP 3 hrs
- HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.

**Also meets General Education Requirements;

Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core Requirements (55 hrs)

- NUR 3809 Transitional Concepts in Nursing I 3 hrs
- NUR 3065 Health Assessment 3 hrs
- NUR 3165 Nursing Research/Critical Inquiry 3 hrs
- NUR 4084 Transitional Concepts in Nursing II 3 hrs
- NUR 4636 Community as Continuum of Care 3 hrs
- NUR 4636L Clin Prac in Comm-Oriented Nursing 2 hrs
- NUR 4827 Leadership and Management Principles 3 hrs
- NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
- NUR 4945L Directed Nursing Practice 4 hrs
- Validation Credit 28 hrs

4. Upper Division Restricted Elective (3 hrs)

- NUR XXXX Any Nursing Elective 3 hrs

5. Departmental Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- UCF GPA of 2.5 or above
- School 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
- 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 hours

Related Programs: Health Services Administration, Social Work, All health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study

Semester I		Semester II	
NUR3809	3	NUR 3165	3
NUR 3065	3	NUR 4827	3

Semester III			
NUR 4084	3		
NUR XXXX (elective)	3		

Semester IV		Semester V	
NUR 4636	3	NUR 4837	3
NUR 4636L	2	NUR 4945L	4

*Elective may be taken at any point.

Progression requirements:

- Prior to NUR 3809:
 - RN status or eligible to take NCLEX.
- Prior to NUR 3165:
 - Complete NUR 3809 and Statistics course with grade of "C" (2.0) or better.
- Prior to NUR 4084 :
 - Be admitted to the nursing program
 - Complete general education requirements or A.A. from a Florida state community college or university

- (SUS)
- Complete CLAST(or exempt)
 - Complete Foreign language admission requirement
 - Validation exams or current professional work as RN or pass the NCLEX within the last two years

Prior to NUR 4636 and NUR 4636L:

Complete NUR 4084

Prior to NUR 4945L: (or co-requisite)

Complete NUR 4636 and NUR 4636L

Other

Information about tuition, fees, and length of nursing programs can be obtained from the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006. (800) 669-1656, ext. 153.

Program offered in Orlando and at branch campuses of Daytona and Brevard and Leesburg (Lake Sumter).

The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica are required. For further information access <http://www.cohpa.ucf.edu/nursing/>

NURSING (B.S.N.)

C. RN TO MSN OPTION

College of Health and Public Affairs

HPA 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

Program Coordinator: Linda Hennig

Accelerated program for students who are licensed as an RN in the State of Florida and meet general education requirements, prerequisites, and required GPA.

Available for all tracks in the graduate program. Nursing Leadership and Management, Family Nurse Practitioner, Adult Nurse Practitioner, Pediatric Nurse Practitioner, and Clinical Nurse Specialist. (See UCF *Graduate Catalog* for current offerings.) Up to 15 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 accelerated RN-MSN program. **Separate application** to this *limited access program* must be made. Contact the School of Nursing or visit our website for application materials. All applicants must meet the following criteria:

- Graduate of a state-approved or accredited associate degree or diploma nursing program
- Licensure as an RN in the State of Florida
- Completion of UCF general education requirements or an AA degree from a state of Florida school, including CLAST (or exempt)
- Completion of prerequisites for the RN-BSN nursing program
- Minimum cumulative GPA of 3.2
- Admitted to UCF undergraduate program
- Three professional references

Interim Requirements:

Maintain a Nursing GPA of 3.0

Completion of the GRE by the end of the second semester in the program with a minimum combined GRE score of 900 on the verbal/quantitative exams.

Admission Requirements for Graduate Nursing Phase: (To be met during the semester the BSN is awarded)

- Application to Graduate Studies
- Completion of all UCF School of Nursing coursework to date with a minimum GPA of 3.0
- An updated resume

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
- UCF Residency Requirement: 30 hours
- The BSN is awarded after completion of 60 hours including specified courses
- The MSN is awarded after program completion
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

BSN Curriculum Changes for the RN to MSN Option:

- An individualized plan of study is developed for each student admitted to the RN to MSN option.
- Students take NUR 4836, Professional Development Seminar, to meet the requirements of NUR 4084, Transitional Concepts of Nursing II.
- Students take NGR 5800, Nursing Theory/Research I, instead of NUR 3165, Nursing Research, if they have taken NUR 4836. The credits for this course are applied to both the BSN and MSN programs.
- Students pursuing the MSN in the Nursing Leadership and Management Track may take the following courses:
 - NUR 4838L, Directed Practice in Nursing Administration (for NUR 4945L, Directed Nursing Practice)
 - NGR 5720, Organizational Dynamics (for NUR 4827, Leadership and Management Principles)
 - NGR 5871, Health Care Informatics (for nursing elective)
 - NGR/HSA XXXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective)
- Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks may take the following courses:
 - NGR 5003 and NGR 5004L, Advanced Health Assessment, Health Promotion and Diagnostic Reasoning (for NUR 4945L, Directed Nursing Practice and undergraduate nursing elective)
 - NGR 5141, Pathophysiology (for undergraduate nursing elective)
 - NGR XXXX, Graduate elective in area of concentration

1. UCF General Education Program

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - MAC 1105
 - Select STA 2014C
- D. Social Foundations 6 hrs
 - Select SYG 2000 *or* PSY 2012
 - Select one: ECO 2013 *or* ECO 2023 *or* POS 2041
- E. Science Foundations: 6 hrs
 - Select BSC 2010C
 - Select CHM 1032

2. Common Program Prerequisites

21 hrs

- PSY 2012 General Psychology**
- SYG 2000 Sociology**
- MCB 2005C Health Microbiology
- CHM 1032/L General Chemistry and lab**
- ZOO 3733C Human Anatomy*
- PCB 3703C Human Physiology
- STA 2014C *or* 2023 Principles of Statistics**

- SOW 3104 Assessing Human Development *or* 3 hrs
- DEP 2004 Developmental Psychology
- HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.

**Also meets General Education Requirements;

Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Upper Division Restricted Elective

none

4. Departmental Exit Requirements

Completion of all courses in major with a grade of "B" (3.0) or better

- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

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).

Graduation:

none

7. University Minimum Exit Requirements

(For students exiting after earning BSN.)

- 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 BSN

120 hours

Related Programs: Health Services Administration, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

NURSING ACCELERATED SECOND DEGREE BACHELOR OF SCIENCE IN NURSING (BSN) OPTION

Note: For detailed information about this program, see description in the Accelerated Undergraduate-Graduate Program section.

NURSING (B.S.N.)

AS TO BSN TRACK

Note: For detailed information about this program, see description in the AS to BS Program section.

ORGANIZATIONAL COMMUNICATION (B.A.)

College of Arts and Sciences

Nicholson School of Communication, COM 258,

407-823-2852,

<http://www.cas.ucf.edu/communication>

E-mail: communication@ucf.edu

K. Phillip Taylor

Admission Requirements

Application to the School of Communication needed. Before applying, student must complete STA 2023 with a "C" (2.0) or better.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students need to apply to the School office to enter this major
- Co-op or internship credit can be used in this major
- 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

UCF Degree Programs

- the UCF Nicholson School of Communication
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 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 & 1102 Composition 6 hrs
 Select SPC 1600 Fund Oral Communication 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 Select STA 2023 Statistical Methods I 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (0 hrs)

- XXX XXXX 18 hrs of any GEP courses GEP

3. Additional Program Prerequisites (15 hrs)

- Must be completed with a "C" (2.0) or better before Core Courses can be taken
- STA 2023 Statistical Methods I 3 hrs
 COM 3011C Communication & Human Relations 3 hrs
 COM 3311 Communication Research Methods 3 hrs
 Select from one of the following:
 CGS 2100C Comp. Fundamentals for Business 3 hrs
 CGS 2585C Desktop/Internet Publishing 3 hrs
 CGS 3175 Public Relations Publications 3 hrs
 PUR 4110C Public Relations Publications 3 hrs
 ENC 3250 Professional Writing 3 hrs

4. Core Requirements (12 hrs)

- SPC 3425C Group Interaction & Decision Making
 SPC 3445 Leadership Through Oral Communication
 COM 3110 Business and Professional Communication
 COM 3120 Organizational Communication

5. Electives (9 hrs)

- Select from the following list:
- SPC 3513 Argumentation and Debate
 SPC 4350 Studies in Listening
 COM 3330 Computer Mediated Communication
 COM 3701 Humor in Communication
 COM 4014 Gender Issues in Communication
 COM 4461 Intercultural Communication
 COM 4462 Conflict Management
 COM 4941 Internship
 COM 3XXX Interviewing Principles and Practices
 COM 4XXX Health Communication
 COM 4XXX Family Communication
 COM 4XXX Communication and Aging
 COM 4XXX Comm. Training and Development
 COM 4XXX Communication and Law

6. Upper Division Restricted Electives (6 hrs)

A minimum of six upper division credit hours selected from courses in Business Law, Management, Marketing, or Hospitality Management.

7. School Exit Requirements

- Achieve a "C" (2.0) or better GPA in required UCF Communication courses
- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Computer Competency met by a Computer Science course or by departmental assessment

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam

9. Electives (variable)

Select primarily from upper level courses, with school advisors approval. May be taken outside the School of Communication.

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 hours

Related Programs: Interpersonal Communication

Related Minors: Interpersonal Communication

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.

PHILOSOPHY (B.A.)

College of Arts and Sciences

Philosophy Department, CNH 411,
<http://www.cas.ucf.edu/philosophy>

E-mail: philosophy@ucf.edu

TBA, 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 2211 Humanistic Traditions I 3 hrs
 Select HUM 2230 Humanistic Traditions II 3 hrs
 Select PHI 2010 Intro to Philosophy 3 hrs
- C. Mathematical Foundations
 Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core requirements* (27 hrs)

Philosophical Foundations: (12 hrs)
 Select 12 hours, including at least three hours from each group:

Reasoning

- PHI 2011 Philosophical Reasoning
 PHI 2101 Critical Thinking
 PHI 2100 Formal Logic I

Ethics

- PHI 3670 Ethical Theory

Knowledge

- PHI 3320 Philosophy of Mind
 PHI 4341 Ways of Knowing
 PHI 4300 Theories of Knowledge
 PHI 4500 Metaphysics

Research Methods

- PHI 3XXX Research Methods in Philosophy

Disciplinary and Interdisciplinary Knowing (6 hrs)

- Select two courses:
 PHI 3400 Philosophy of Law

PHI 3700	Philosophy of Religion
PHI 4400	Philosophy of Science
PHI 4420	Philosophy of Social Science
PHI 3451	Philosophy of Psychology
PHI 3800	Aesthetics

Applications

Select three courses:

HUM 4330	Performance Theory
PHI 3626	Ethics in Science & Technology
PHI 3022	Sexuality, Gender, & Philosophy
PHI 3033	Philosophy, Religion, and the Environment
PHI 3638	Ethical Issues in the 21st Century
PHI 3640	Environmental Ethics
PHI 3941	Philosophy Practicum
PHI 4321	Philosophies of Embodiment: Mind/Body/Self
PHI 4931	Philosophy in the News
PHI 4633	Ethics and Biological Science
PHI 4804	Critical Theory
PHM 3100	Freedom and Justice
PHM 3123	Feminist Theory
PHM 4031	Environmental Philosophy
REL 3XXX	Religion, Philosophy and Film

*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. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

Philosophical Foundations (12 hrs)

Same requirements as for regular majors but must include PHI 2100 Formal Logic I

Disciplinary and Interdisciplinary Knowing (6 hrs)

Same requirements as for regular majors

Applications (9 hrs)

Same requirements as for regular majors

Upper division Restricted Electives (6 hrs)

Choose two of the following:

PHH 3100	Ancient Philosophy
PHH 3200	Medieval Philosophy
PHH 3460	Modern Western Philosophy
PHH 3600	Contemporary Philosophy

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

6. Departmental Exit Requirements

- Either PHI 4970H: Honors Thesis (3 hrs) or organization and submission of a portfolio (PHI 4951 - 1 hr) of one's work in philosophy to a Departmental committee for approval prior to graduation.
- Earn a "C" (2.0) or better in each required course.
- Computer Competency met by PHI 4970H, PHI 4951, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Two semesters or equivalent proficiency exam. 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 hours

Related Programs: Humanities

Related Minors: 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.

PHOTOGRAPHY (B.S.)

A.S. to B.S. Track

Note: For detailed information about this program, see description in the AS to BS Programs section.

PHYSICAL EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor 407-823-5791

Coordinator: Patricia Higginbotham, 407-823-2050

E-mail: higginbp@mail.ucf.edu

Web Address: <http://www.edcollege.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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements:

- Students should consult with an advisor.

1. UCF General Education Program

A. Communication Foundations	(9 hrs)	
ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations	(9 hrs)	
AMH 2010	U.S. History 1492-1877	3 hrs
AMH 2020	U.S. History 1877-Present	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations	(6 hrs)	
MGF 1106	Finite Mathematics	3 hrs
Select one:		3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	3 hrs
D. Social Foundations	(6 hrs)	
POS 2041	American National Government	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations	(7 hrs)	
PSC 1121	Physical Science	3 hrs
BSC 2010C	General Biology	4 hrs
2. Common Program Prerequisites	(25 hrs)	
A. Communications	(9 hrs)	
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP

UCF Degree Programs

B. Humanities		(6 hrs)
PHI 2010	Introduction to Philosophy	GEP 3 hrs
Select one:		
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	
C. Mathematics		(9 hrs)
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Science/History		(12 hrs)
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science		(9 hrs + lab)
PSC 1121	Physical Science	GEP
BSC 2010C	General Biology	GEP
Select one:		
AST 2002	Astronomy <i>or</i>	3 hrs
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
F. Education Courses		(9 hrs)
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP
H. Other Program Prerequisites		(7 hrs)
ZOO 3736C	Human Anatomy with Lab	4 hrs
Select one:		3 hrs
PEO 2011	Team Sports <i>or</i>	
PEO 2031	Indiv. Sports and Leisure Activities	

3. Education Core Requirements		(15 hrs)
EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Thry & Prac Teaching ESOL Students in Schools	3 hrs
RED 4043	Content Reading K-12	3 hrs

4. Specialization Requirements		(30 hrs)
Physical Education (K-8)		
DAE 3370	Dance & Rhythms	3 hrs
PEO 3041	Games in the Elementary School	3 hrs
PEP 3205	Gymnastics	3 hrs
PET 2622CC	Human Injuries	3 hrs
PET 4050C	Motor Development & Learning	3 hrs
PET 4312	Biomechanics	3 hrs
PET 4351	Applied Exercise	3 hrs
PET 4401	Administration and Evaluation in PE	3 hrs
PET 4640	Adapted PE	3 hrs
PET 4823	Teaching Sports Skills	3 hrs

5. Internship I and Methods		(6 hrs)
PET 3940	Internship I	3 hrs
PET 4710	Teaching Physical Education K-12	3 hrs
<ul style="list-style-type: none"> ■ EDG 4323 must be completed before registering for Internship I ■ Junior/senior standing required. Normally taken during next to last full time semester ■ See additional requirements in College of Education, Office of Clinical Experiences 		

6. Internship II (PET 4943)		(12 hrs)
<ul style="list-style-type: none"> ■ All methods/specialization courses must be completed with a letter grade of "C" (2.0) or better before registering for Internship II ■ See additional requirements in College of Education, Office of Clinical Experiences ■ 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 the State Board of Education Rule 6A-5.065 		

Note: Internship II includes a 3 SH module on assessment

7. Optional Certification and Endorsement		
6-12 Certification		(6 hrs)
PET 3765	Coaching Theory	3 hrs
PET 4550	Fitness Assessment and Exercise	3 hrs
Coaching Endorsement		(6 hrs)

PET 3765	Coaching Theory	3 hrs
Select one of the following courses:		3 hrs
PEO 2624	Coaching Basketball	
PEO 3324	Coaching Volleyball	
PEO 3644	Coaching Football	

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)

Total Semester Hours Required 125 hours

PHYSICS (B.S.)
College of Arts and Sciences
Physics Department, MAP 310, 407-823-2325,
<http://www.physics.ucf.edu>
E-mail: physics@ucf.edu

Interim Chair: Ralph Llewellyn, 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 between these tracks.

Admission Requirements none

- Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
 - Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade
 - Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics
 - Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 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 English Composition I		3 hrs
Select ENC 1102 English Composition II		3 hrs
Prefer SPC 1016 Oral Comm for Tech Prof		3 hrs
B. Cultural and Historical Foundations		9 hrs
C. Mathematical Foundations		
Select MAC 2281 Calculus for Sci & Eng I		4 hrs
Select COP 3223 Computer Programming		3 hrs
D. Social Foundations		6 hrs
E. Science Foundations		
Select PHY 2048 & L Physics for Sci & Eng I (PR:MAC 2281)		4 hrs

Select a GEP course from Science Section 2	3 hrs
2. Common Program Prerequisites	(20 hrs)
CHM 2045C* Chem Fund I	4 hrs
CHM 2046 & L Chem Fund II with lab	4 hrs
MAC 2281 Calculus for Sci & Eng I	GEP
MAC 2282 Calculus for Sci & Eng II	4 hrs
MAC 2283 Calculus for Sci & Eng III	4 hrs
PHY 2048 & L Physics Engr & Sci I & Lab	GEP
PHY 2049 & L Physics Engr & Sci II & Lab	4 hrs

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 Methods of Physics	3 hrs
PHY 3221 Mechanics	3 hrs
PHY 3503 Thermal and Statistical Physics	3 hrs
PHY 3323 Electricity and Magnetism I	3 hrs
PHY 4324 Electricity and Magnetism II	3 hrs
PHY 4604 Introduction to Quantum Mechanics I	3 hrs
PHY 4605 Introduction to Quantum Mechanics II	3 hrs
PHY 4912 Directed Independent Research (should be done 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 PHY, PHZ, or AST courses	6 hrs
Directed Electives	9 hrs
Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Chemistry, Computer Science, or Engineering.	

4.2 Materials Physics Specialization	(18 hrs)
Choose one lab from:	
PHY 4803L Advanced Physics Lab	3 hrs
EEL 5355C Fabrication of Solid State Devices	4 hrs
Choose nine hours from:	
EEL 3306 Semiconductor Devices	3 hrs
EEN 3365 Structure and Properties of Materials	3 hrs
EMA 4413 Electronic Properties of Materials	3 hrs
CHM 3411L Physical Chemistry Laboratory	2 hrs
PHZ 5405 Condensed Matter Physics	3 hrs
EEL 5352 Semiconductor Mat & Device Char	3 hrs
Directed Electives	6 hrs
Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.	

4.3 Optics and Lasers Specialization	(18 hrs)
PHY 4424L Optical Physics Laboratory	3 hrs
PHY 4424 Physical Optics	3 hrs
Choose six hours from:	
EEL 4440 Optical Engineering	3 hrs
PHY 4445 Lasers	3 hrs
OSE 5414 Fund. of Optoelectronic Devices	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.	

4.4 Computational Physics Specialization	(18 hrs)
PHZ 3151 Computer Methods in Physics	3 hrs
COP 3502C Computer Science I	3 hrs
COP 3503C Computer Science II	3 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 Introduction to Astronomy	3 hrs
AST 3722C Observational Astronomy	3 hrs
Choose two of the following:	
AST 3110 Solar System Astronomy	3 hrs
AST 3211 Stellar Astrophysics	3 hrs
AST 3402 Galaxies and Cosmology	3 hrs
Directed Electives	6 hrs
Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or	

Engineering.	
5. Departmental Exit Requirements	
■ Students must have at least a 2.0 GPA in all courses counted toward the major	
■ 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	

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)	

Total Semester Hours Required **120 hours**

Related Programs: Engineering, Mathematics

Related Minors: Mathematics, Physics

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:

- CHM 2045C*: may use CHM 1040 plus CHM 1041
- MAC 2281*, 2282*, 2283*: MAC 2311, 2312, and 2313 will substitute

POLITICAL SCIENCE (B.A.)

College of Arts and Sciences

Political Science Department, CNH 415, 407-823-2608

<http://pegasus.cc.ucf.edu/~politics>

E-mail: politics@ucf.edu

R. Handberg, 407-823-2608

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Prefer AMH 2010 US History: 1492-1877 and	3 hrs

UCF Degree Programs

AMH 2020 US History: 1877-Present	3 hrs
Select from GEP list	3 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Select STA 2014C Principles of Statistics <i>or</i> STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	
Select POS 2041 American National Government	3 hrs
Select one of the three choices	3 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites	(3 hrs)
POS 2041* American National Government	GEP
POS 3703* Scope & Methods of Pol Sci	3 hrs

*See Transfer Notes for possible substitutes

3. Upper Division Restricted Electives (30 hrs)

Choose one of the following emphases

Emphasis 1: American Politics and Policy	
Five courses from area A	15 hrs
Two courses from area B	6 hrs
Two courses from area C	6 hrs
One additional course from any area	3 hrs
Emphasis 2: International Relations-Comparative Politics	
Two courses from area A	6 hrs
*Five courses from area B	15 hrs
Two courses from area C	6 hrs
One additional course from any area	3 hrs
*No more than two of the following courses may be considered part of area B credit: INR 4401, INR 4402, INR 4404.	

Emphasis 3: Prelaw
Please see Political Science - Prelaw for the emphasis requirements.

AREAS OF SPECIALIZATION

A. American Politics and Policy

POS 3122	State Government
POS 3173	Southern Politics
POS 3182	Florida Politics
POS 3233	Political Opinion
POS 3235	Mass Media and Politics
POS 3273	Voting and Elections
POS 3182	Florida Politics
POS 3413	The American Presidency
POS 3XXX	Women and Political Behavior
POS 3424	Congress and the Legislative Process
POS 3443	Political Parties and Processes
POS 3258	Politics in Film
POS 3463	Interest Groups
POS 3627	Cultural Pluralism and the Law
POS 4142	Metropolitan Politics
POS 4204	Political Behavior
POS 4206	Political Psychology
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
PUP 4XXX	Urban Environmental Politics
PUP 4204	Sustainability
PUP 3203	Environmental Politics
PUP 3314	Minorities in American Politics
PUP 4003	American Public Policy
PUP 4204	Sustainability
PUP 4323	Women and Public Policy
PUP 4XXX	GIS for Political Science
PUP 4404	Education and Politics
PUP 4503	Government and Science
PUP 4602	Politics of Health
PUP 4244	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 3403	Politics of the Middle East
CPO 3614	Politics of Eastern Europe
CPO 4062	Comparative Judicial Processes
CPO 4074	Political Economy
CPO 4123	Government and Politics of Great Britain
CPO 4303	Comparative Latin American Politics
CPO 4643	Government and Politics of Russia
CPO 4710	Women in Comparative Perspective
GEO 3470	World Political Geography

INR 2002	International Relations
INR 3253	International Politics of Africa
INR 4035	International Political Economy
INR 4085	Women, Gender, and Globalization
INR 4102	American Foreign Policy
INR 4114	American Security Policy
INR 4115	Strategic Weapons and Arms Controls
INR 4224	Contemp International Politics of Asia
INR 4225	Vietnam War
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
POS 3253	Contemp Revolution & Political Violence
PUP 3508	Space Studies
PUP 4510	Space Policy

C. Political Theory

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 4305	The State, Society, and The Individual
POT 4314	Contemporary Democratic Theory
POT 4331	Utopia/Disutopia
POT 4414	Marxist Political Theory
POT 4632	Religion and Politics

4. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters or equivalent proficiency exam.

6. 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 internships 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.

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 hours

Related Programs: Economics, History

Related Minors: Economics, History, Psychology, Sociology, Philosophy

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:

- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or

CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

POLITICAL SCIENCE (B.A.) - INTERNATIONAL STUDIES TRACK

**College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608**

http://pegasus.cc.ucf.edu/~politics

E-mail: politics@ucf.edu

R. Handberg, 407-823-2608

Admission Requirements **none**
Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | |
| Prefer AMH 2010 US History: 1492-1877 and | 3 hrs |
| AMH 2020 US History: 1877-Present | 3 hrs |
| Select from GEP list | 3 hrs |
| C. Mathematical Foundations | 6 hrs |
| Select MGF 1106 Finite Mathematics | 3 hrs |
| (may substitute a higher level math) | |
| Select STA 2014C Principles of Statistics or | 3 hrs |
| STA 1060C Statistics Using Excel | |
| D. Social Foundations | |
| Select POS 2041 American National Government | 3 hrs |
| Select one of the three choices | 3 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites (6 hrs)

- | | | |
|-----------|---|-------|
| INR 2002* | International Relations-Theory and Practice | 3 hrs |
| ECO 2013* | Macroeconomics | 3 hrs |
- *See Transfer Notes for possible substitutes

3. Core Requirements (15 hrs)

- | | | |
|----------|--|-------|
| GEO 3470 | World Political Geography | 3 hrs |
| IDS 3XXX | Global Perspectives | 3 hrs |
| IDS 4XXX | Capstone in International Studies | 3 hrs |
| POS 3703 | Scope and Methods of Political Science | 3 hrs |
| INR 4603 | International Relations Theory | 3 hrs |

4. Restricted Electives (18 hrs)

Note: Students must meet all prerequisites before taking these classes.

Regional (9 hrs)

- | | |
|----------|--|
| CPO 3034 | Politics of Developing Areas |
| CPO 3103 | Comparative Politics |
| 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 4123 | Government and Politics of Great Britain |
| CPO 4303 | Comparative Latin American Politics |
| 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 4076 | Global Drug Policy |
| INR 4075 | Human Rights Policy |
| INR 4074 | Immigration Policy |
| INR 4304 | International Public Policy |

- | | |
|----------|---|
| INR 4714 | Politics of International Trade Policy |
| INR 4603 | International Relations Theory |
| INR 4035 | International Political Economy |
| INR 4085 | Women, Gender, and Globalization |
| INR 4102 | American 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 4510 | Space Policy |

Other courses may be substituted with the chair's approval.

5. Required minor (18 hrs minimum)

Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, Russian Area Studies, or Spanish.

Note: No more than one course may be used to fulfill both this track and the minor.

6. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

7. Foreign Language Requirements (0-14 hrs)

Admission: Met by graduation requirement

Graduation: Two years (four semesters) or equivalent proficiency exam.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisors approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Economics, History

Related Minors: Economics, History, Psychology, Sociology, Philosophy

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:

- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

UCF Degree Programs

POLITICAL SCIENCE - PRELAW TRACK (B.A.)

College of Arts and Sciences

Political Science Department, CNH 415, 407-823-2608

<http://pegasus.cc.ucf.edu/~politics>

E-mail: politics@ucf.edu

R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the Department's prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
 - Prefer AMH 2010 US History: 1492-1877 and 3 hrs
 - AMH 2020 US History: 1877-Present 3 hrs
 - Select from GEP list 3 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Mathematics 6 hrs
 - (may substitute a higher level math) 3 hrs
 - Select STA 2014C Principles of Statistics *or* 3 hrs
 - STA 1060C Statistics Using Excel
- D. Social Foundations
 - Select POS 2041 American National Gvt 3 hrs
 - Select one of the three choices 3 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

- POS 2041* American National Gvt GEP
 - POS 3703* Scope & Methods of Pol Sci 3 hrs
- *See Transfer Notes for possible substitutes

3. Upper Division Restricted Electives (30 hrs)

- POS 4284 Judicial Process and Politics 3 hrs
- 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
- Select one (See listing under Political Science)
 - Five courses from area A *and* 15 hrs
 - Two courses from area B 6 hrs
 - or*
 - Two courses from area A *and* 6 hrs
 - Five courses from area B 15 hrs
- Select one course from area C 3 hrs

4. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters or equivalent proficiency exam.

6. 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 3320,3321 | Business Law I & II |
| PLA 3104 | Legal Research |
| PLA 3155 | Legal Writing |
| PHI 2101 | Critical Thinking |
| PHI 2100 | Formal Logic I |
| MHF 3302 | Logic and Proof in Mathematics |
| ENC 3311 | Expository Writing |
| LIN 4100 | History of the English Language |
| | Internship Program: Political Science |

For students who excel, a limited number of internships 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.

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 hours

Related Programs: Economics, History, Philosophy

Related Minors: Economics, History, English, Philosophy

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:

- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

PSYCHOLOGY (B.A.)

College of Arts and Sciences

Psychology Department, PH 302B, 407-823-2216

<http://pegasus.cc.ucf.edu/~psych>

E-mail: psychology@ucf.edu

J. McGuire, 407-823-2216

Psychology Advising Center: PH 305G 407-823-2219

Students majoring in Psychology as the foundation of a Liberal Arts degree will probably find the BA option an appropriate degree. Not open to BS Psychology majors.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a "C" (2.0) in each Psychology course counted toward the major requirements
- Co-op or internship credit cannot be used in this major
- Students should consult with the Department Interim Director of Undergraduate Advising, T. Hernandez, 407-823-2547, 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 3214C. 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)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Math 3 hrs
 - Select STA 2023 Statistical Methods I* *or* STA 2014C Principles of Statistics 3 hrs
- D. Social Foundations
 - Select one of the listed choices 3 hrs
 - Select PSY 2012 General Psychology 3 hrs
- E. Science Foundations
 - Select BSC 1005 Biological Principles 3 hrs
 - Select one of the listed choices 3 hrs

*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)

- BSC 1005* Biological Principles *or* GEP
- PSY 2012* General Psychology GEP
- DEP 2004* Developmental Psychology 3 hrs
- STA 2023* Statistical Methods I *or* STA 2014C GEP

*See Transfer Notes for possible substitutes

3. Core requirements (10 hrs)

- EXP 3404 Basic Learning Processes 3 hrs
- PSB 3002 Physiological Psychology 3 hrs
- PSY 3214C Research Methods 4 hrs

4. Restricted Electives (12 hrs)

- Select two of the following three courses 6 hrs
- DEP 2004 Developmental Psychology
- PPE 3003 Personality Theory
- SOP 3004 Social Psychology

Select six additional upper division hours in Psychology 6 hrs

5. Diversity (9 hrs)

Take three diversity courses: one from A, one from B, and one from either A or B

- A. Psychology Diversity courses
 - DEP 3464 Psychology of Aging
 - SOP 3723 Cross Cultural Psychology
 - SOP 3724 Psychology of Racial Prejudice
 - SOP 3742 Psychology of Women
 - SOP 2772 Sexual Behavior
 - SOP 3784 Psychology of Diversity
- B. General Diversity courses

Select from courses outside the Psychology department that focus on gender, class, or minority issues:

- AMH 3561, 3562, 3571, 3572, 3586; AML 3614, 3615, 3640, 4261; ANT 3241, 3302, 3311, 3313, 3332, 3363, 3541, 3640; ARH 3520, 4458; ASH 4404, 4442; CCJ 4670; CLA 3851; COM 4014, 4461; CPO 3403; EUH 4576; FIL 3309; GEO 3470; GEY 3001; HSC 4564; HUM 3320, 3401, 3419; JST 3401; LAH 3130, 3200, 3400, 5713; LIN 4643; LIT 3354, 3383; PHI 3022, 3033; PHM 3123; POS 4246, 4622; PUP 3314, 4323; REL 3162; SPA 4612, 4613; SYD 3700, 3800; SYP 4730; WST 3015.

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each psychology course used for major
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3214C

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters or equivalent proficiency exam.

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 hours

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice

Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

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:

- BSC 1005*: any lower level BSC course or ZOO X010.
- PSY 2012*: any PSY course. However PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023* or STA 2014C: any lower level STA course. However, STA 2023 (or STA 2014C) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004*: any lower level psychology course.

PSYCHOLOGY (B.S.)

College of Arts and Sciences

Psychology Department, PH 302B, 407-823-2216

<http://pegasus.cc.ucf.edu/~psych>

E-mail: psychology@ucf.edu

J. McGuire, 407-823-2216

Students who desire a quantitative background in statistics, math, and science are encouraged to complete the program of study leading to the BS degree. Not open to BA Psychology majors.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a "C" (2.0) in each Psychology course counted toward the major requirements
- Co-op or internship credit cannot be used in this major
- Students should consult with the Department Interim Director of Undergraduate Advising, T. Hernandez, 407-823-2547, 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,

UCF Degree Programs

including PSY 3214C. 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

PSY 3302 Psychological Measurement
 PSY 3220C Survey Methods in Psychology
 PSY 4215L Advanced Research Methods Statistical Lab
 PSY 4305C Psychological Measurement Lab

1. UCF General Education Program (37 hrs)

- A. Communication Foundations 9 hrs
 - B. Cultural and Historical Foundations 9 hrs
 - C. Mathematical Foundations
 - Select MGF 1106 Finite Math 3 hrs
 - Select STA 2023 Statistical Methods I* *or* STA 2014C Principles of Statistics 3 hrs
 - D. Social Foundations
 - Select one of the listed choices 3 hrs
 - Select PSY 2012 General Psychology 3 hrs
 - E. Science Foundations
 - Select BSC 2010C General Biology *or* BSC 1005 (If no additional Biology courses are planned) 4 hrs
 - Select one of the listed choices 3 hrs
- *See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)

- BSC 2010C* General Biology *or* CEP 3000 3 hrs
 - BSC 1005 (If no additional Biology courses are planned) 3 hrs
 - PSY 2012* General Psychology 3 hrs
 - DEP 2004* Developmental Psychology 3 hrs
 - STA 2023* Statistical Methods I or STA 2014C 3 hrs
- *See Transfer Notes for possible substitutes

3. Core requirements (14 hrs)

- EXP 3404 Basic Learning Processes 3 hrs
- PSB 3002 Physiological Psychology 3 hrs
- PSY 3214C Research Methods 4 hrs
- PSY 4215C Advanced Research Methods 4 hrs

4. Restricted Electives (12 hrs)

- A. Select two of the following: 6 hrs
 - DEP 2004 Developmental Psychology
 - PPE 3003 Personality Theory
 - SOP 3004 Social Psychology
- B. Psychology electives: select six additional upper division hours in psychology 6 hrs

5. Diversity courses (6 hrs)

- Take two diversity courses - one from A & one from B
- A. Psychology Diversity courses 3 hrs
 - DEP 3464 Psych of Aging
 - SOP 3723 Cross Cultural Psychology
 - SOP 3724 Psych of Racial Prejudice
 - SOP 3742 Psych of Women
 - SOP 2772 Sexual Behavior
 - SOP 3784 Psychology of Diversity
 - B. General Diversity courses 3 hrs

Select from courses outside the Psychology department that focus on gender, class or minority issues.

AMH 3561, 3562, 3571, 3572, 3586; AML 3614, 3615, 3640, 4261; ANT 3241, 3302, 3311, 3313, 3332, 3363, 3541, 3640; ARH 3520, 4458; ASH 4404, 4442; CCJ 4670; CLA 3851; COM 4014, 4461; CPO 3403; EUH 4576; FIL 3309; GEO 3470; GEY 3001; HSC 4564; HUM 3320, 3401, 3419; JST 3401; LAH 3130, 3200, 3400, 5713; LIN 4643; LIT 3354, 3383; PHI 3022, 3033; PHM 3123; POS 4246, 4622; PUP 3314, 4323; REL 3162; SPA 4612, 4613; SYD 3700, 3800; SYP 4730; WST 3015.

6. Science Electives (12 hrs)

- A. Select at least six credits outside Psychology from: (See course listing for prerequisites) 6 hrs
 - CGS 2100C Computer Fundamentals of Business
 - COP 3502C Computer Science I
 - COP 3503C Computer Science II
 - ENC 3241 Technical Writing
 - MAC 2233 Concepts of Calculus
 - MAC 2253 Applied Calculus I
 - MAC 2254 Applied Calculus II
 - PCB 3063 & L Genetics with lab
 - PCB 3703C Human Physiology
 - STA 4102 Computer Process of Stat Data
 - STA 4163 Statistical Methods II
 - STA 4164 Statistical Methods III
 - ZOO 3733C Human Anatomy
- B. Select at least two of the following: 5-8 hrs
 - EXP 3204C Perception
 - EXP 3513 Cognitive Psychology
 - EXP 4507C Advanced Human Memory and Cognition
 - PSB 4013C Neuropsychology

7. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each psychology course
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3214C

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.
Graduation: Two semesters or equivalent proficiency exam

9. Electives (variable)

- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable).
- 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

Total Semester Hours Required 120 hours

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice

Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

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:

- 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.
- PSY 2012: any PSY course. However PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023 or STA 2014C: or any lower level STA course. However, STA 2023 (or STA 2014C) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004: any lower level psychology course.

PUBLIC ADMINISTRATION

(B.A., B.S.)

College of Health and Public Affairs

HPA2 238, 407-823-2604

<http://www.cohpa.ucf.edu/pubadm/>

Chair: Montgomery Van Wart

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".
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
Select CGS 1060C
- D. Social Foundations (nine hours required for major) 6 hrs
Select PSY 2012 or SYG 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 2023 Microeconomics 3 hrs

3. Core Requirements (18 hrs)

- PAD 3003 Public Admin. in American Society 3 hrs
- PAD 4034 Administration of Public Policy 3 hrs
- PAD 4104 Administrative Management 3 hrs
- PAD 4204 Fiscal Management 3 hrs
- PAD 4414 Human Resource Management 3 hrs
- PAD 4720 Survey Research in Public Administration 3 hrs

4. Upper Division Restricted Electives (39 hrs)

Public Administration electives are required as follows:

- *Double Majors*, those who complete a PAD major, and those of another UCF major, must take a minimum of 15 hrs PAD pre-fixed electives;
- Those who complete a recognized UCF **minor** in a discipline outside Public Administration must take a minimum of 18 hrs PAD pre-fixed electives;
- All other PAD majors must complete at least 21 hrs of PAD pre-fixed electives within the restricted elective area;
- Additional electives can be taken from other allied supporting fields such as accounting, legal studies, communications, computer science, criminal justice, economics, political science, social work, sociology and statistics. Courses should be selected with the assistance of an advisor, and must be upper division (3000-4000 level).

5. Departmental Exit Requirements

The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3 and 4).

6. Electives (variable)

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 additional upper level technical courses (six credit hours) 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.

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 hours

Related Programs: Accounting, Communications, Economics, Legal Studies, Computer Science, Social Work, Political Science, Criminal Justice, Health Services Administration, Management

Related Minors: Computer Science, Communications, Business, Economics

Transfer Notes:

- Intro. to Computer Science (CGS 1060C) or any Computer Science course 3
- Economics I (ECO 2013) or any Macroeconomics course 3
- American National Government (POS 2041) or any course in American National Government 3

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C	3	MGF 1106	3
POS 2041	3	PSY 2012 <i>or</i> SYG 2000	3
One Course: ARH 2050,	3	<i>or</i> ANT 2000	
ARH 2051, MUL 2010,		CHM 1020 <i>or</i> PSC 1121	3
THE 2000, REL 2300,		<i>or</i> AST 2002	
PHI 2010, LIT 2110, LIT 2120		Elective	3
PAF 2102	2		
Summer	6/8 hrs		
(Foreign Lang I) or B.S. option	3/4		
(Foreign Lang II) or B.S. option	3/4		
*Plan your required 9 summer hours into your course of study			

Sophomore Year			
Fall	15 hrs	Spring	15 hrs
SPC 1600	3	PAD 3003	3
EUH 2000 <i>or</i> HUM 2211	3	EUH 2001 <i>or</i> WOH 2022 <i>or</i>	3
<i>or</i> AMH 2010 <i>or</i> WOH 2012		HUM 2230 <i>or</i>	
ECO 2013 <i>or</i> ECO 2023	3	AMH 2020	
BSC 1005 <i>or</i> BSC 1050	3	Elective	3
<i>or</i> GLY 1030 <i>or</i> GEO 1200		Elective	3
<i>or</i> BOT 1000 <i>or</i> ANT 2511		Elective	3
Elective	3		

Junior Year			
Fall	12 hrs	Spring	12 hrs
PAD 4104	3	PAD 4034	3
PAD 4414	3	PAD 4204	3
PAD Elective	3	PAD 4720	3
Restricted Elective	3	PAD Elective	3

Senior Year			
Fall	15 hrs	Spring	12/15 hrs
PAD Elective	3	PAD Internship	3/6
PAD Elective	3	PAD Elective	3
Restricted Elective	3	Restricted Elective	3
Restricted Elective	3	Elective	3
Restricted Elective	3		

UCF Degree Programs

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 also offers a minor in Urban and Regional Planning.

RADIO-TELEVISION (B.A.)

College of Arts and Sciences

Nicholson School of Communication, COM 246,

407-823-2681,

<http://www.cas.ucf.edu/communication>

E-mail: radiotv@ucf.edu

M. Meeske

Admission Requirements - Limited Access

- Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are:
 - October 1, 2003 for Spring 2004
 - February 2, 2003 for Summer 2004
 - July 1, 2004 for Fall 2004
- 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 the previous year, ranged from a minimum of 2.9.
- Meet a grammar proficiency standard.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

Degree Requirements

- Students who change degree programs 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
- Co-op or internship credit can be used in this major without prior departmental permission
- 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
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation
- A maximum of 3 credit hours of internship may be earned in one semester. A total of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internships are available during "C" (2.0) 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 & 1102 Composition 6 hrs
 - Select SPC 1600 Fund Oral Communication 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
- Select MGF 1106 Finite Mathematics 3 hrs
 - (may substitute a higher level math)
 - Select CGS 1060C Intro. to Computer Science 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites

SPC 1600 Fund Oral Communication GEP

3. Core requirements (all areas) (21 hrs)

- Select one of the following: 3 hrs
- CGS 2100C Computer Fundamentals of Business 3 hrs
 - CGS 2585C Desktop/Internet Publishing 3 hrs
 - CGS 3175 Internet Applications 3 hrs
 - RTV 2102 Writing for the Electronic Media 3 hrs
 - RTV 3200 Broadcast Techniques 3 hrs
 - RTV 3000 Foundations of Broadcasting 3 hrs

MMC 4200	Mass Communication Law	3 hrs
RTV 4403	Elec Media, Tech, and Society	3 hrs
MMC 3420	Mass Media Comm Research Meth	3 hrs

4. Specialization: select one area

Production (18 hrs)		
RTV 3210C	Audio Production I	4 hrs
RTV 3228C	Studio Television Production	4 hrs
RTV 3223C	Lighting for Video	3 hrs
RTV 3260C	Single-Camera Video Production	4 hrs
RTV 3263C	Advanced Video Post-Production	3 hrs
RTV 3280C	Production of Int. Multimedia	3 hrs
RTV 3942L	Practicum	1-3 hrs
RTV 4211C	Audio Production II	3 hrs
RTV 4280C	Webcasting I	3 hrs
RTV 4281C	Webcasting II	3 hrs
RTV 4206C	Television Directing	4 hrs
RTV 4270C	Radio Production & Programming	3 hrs
RTV 4941	Internship	1-3 hrs

Broadcast Journalism (19 hrs)

RTV 3260C	Single-Camera Video Production	4 hrs
RTV 3301	Electronic Journalism I	3 hrs
RTV 3304	Electronic Journalism II	3 hrs
RTV 4320C	Television News	3 hrs
MMC 4602	Contemporary Media Issues	3 hrs
JOU 3004	History of American Journalism	3 hrs

Broadcast Generalist (18 hrs)

Select 12 hours from Group A:		
RTV 3231C	Broadcast Announcing & Performance	4 hrs
RTV 4270C	Radio Production & Programming	3 hrs
RTV 4700	Broadcast Regulations	3 hrs
RTV 4800	Broadcast Management	3 hrs
ADV 4103	Radio-TV Advertising	3 hrs
CMC 4240	Corporate/Institutional Video	3 hrs
COM 3330	Computer-Mediated Comm.	3 hrs
MMC 4263	New Media Technologies	3 hrs
Select 6 hours from Group B:		
ADV 3000	Principles of Advertising	3 hrs
PUR 4000	Public Relations	3 hrs
COM 3110	Business & Prof. Comm.	3 hrs
ENC 2210	Writing for Business Professionals	3 hrs

5. Required Minor (18 hrs minimum)

Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

6. School Exit Requirements

- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Achieve an overall "C" GPA (2.0) in required UCF Radio/TV courses. This GPA does not include Restricted Electives in the major or other electives.
- Computer Competency met by program admission test

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: One year or equivalent proficiency exam.

8. Electives (variable)

Select primarily from upper level courses, with School advisor's approval. May be outside of the School.

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 hours

Related Programs: Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre

Related Minors: Digital Media, Film, Marketing, 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.

RADIOLOGIC SCIENCES (B.S.)

College of Health and Public Affairs

HPA2 210, 407-823-2747

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

Undergraduate Program Director: Thomas Edwards

E-mail: tedwards@mail.ucf.edu

Admission Requirements - Limited Access

- Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program
- **Separate application** to the *limited access program* must be made directly to the program **on or before March 1** of the year admission is sought
- UCF application must be submitted by the program deadline of March 1. Acceptance to UCF is necessary before acceptance to the program can occur
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- Criminal history information (background check) from each state or province of residence during the past 24 months 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." (No TSD credit may be used for prerequisite courses.)

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF Residency Requirement for Radiography: 33 hours

1. UCF General Education Program (36 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 6 hrs
 - Select BSC 2010C
 - Select PHY 2053C

2. Common Program Prerequisites (12 hrs)

- CGS 1060C Introduction to Computer Science GEP
- PCB 3703C Human Physiology* 4 hrs
- PHY 2053C College Physics I GEP
- PHY 2054C College Physics II 4 hrs
- ZOO 3733C Human Anatomy* 4 hrs

MAC 1105 College Algebra GEP

* See Transfer Notes

3. Core Requirements (76 hrs)

<i>Junior Level</i>		
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 3804	Clinical Education I	4 hrs
RTE 3513C	Radiographic Procedures II	3 hrs
RTE 3457C	Principles of Radiographic Exposure II	3 hrs
RTE 3684C	Physics of Image Production	2 hrs
HSC 3640	Health Law	3 hrs
RTE 3308	Medical Physics	3 hrs
STA 2023	Statistical Methods I	3 hrs
HSC 4550	Pathophysiological Mechanisms	3 hrs
<i>Senior Level</i>		
RTE 4563	Special Radiographic Procedures	2 hrs
RTE 4782	Pathophysiology	2 hrs
RTE 4814L	Clinical Education II	5 hrs
RTE 4824L	Clinical Education III	6 hrs
RTE 4573	Advanced Imaging Modalities	3 hrs
RTE 4834	Clinical Education IV	4 hrs
RTE 4385	Radiobiology	1 hr
RTE 4844	Clinical Education V	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 4854	Advanced Clinical Practicum	2 hrs

4. Upper Division Restricted Electives:

RTE 4209	Radiological Adm. Practice	2 hrs
RTE 4903	Directed Study Radiologic Education	2 hrs

5. Program Exit Requirements (124 hrs)

A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (124 hours)

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration

Related Minors: Health Services Administration

Transfer Notes:

Credit by Examination

Credit by Exam for clinical education courses will be awarded to ARRT certified Registered Technologists 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 successful-

UCF Degree Programs

ly 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 or BSC 2093C and BSC 2094C)	8
College Algebra (MAC 1105) OR (MAC 1102)	3
College Physics I (PHY 2053C)	4
College Physics II (PHY 2054C)	4
Introduction to Computer Science (CGS 1060C) or any other Computer Science course	3

Tentative Course Schedule for Entering Freshmen

RADIOLOGIC SCIENCES

Freshman Year*

Fall	12 hrs	Spring	13 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C	3	BSC 2010C	4
MAC 1105	3	MAC 1114	3
CHM 1032	4	ECO 2013 or POS 2041 or ECO 2023	3
Summer	3 hrs		
MUL 2010 or THE 2000 or REL 2300 or PHI 2010 or ARH 2050 or FIL 2400	3		

Sophomore Year

Fall	14 hrs	Spring	14 hrs
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1600	3
EUH 2000 or HUM 2211 or AMH 2010	3	PHY 2054C	4
PSY 2012 or SYG 2000 or ANT 2000	3	EU2001 or HUM 2230 or AMH 2020	3

Summer	8 hrs
(Foreign Lang I)	4
(Foreign Lang II)	4
if not satisfied in high school	

Junior Year

Fall	16 hrs	Spring	16 hrs
RTE 3000	3	RTE 3457C	3
RTE 3111C	2	RTE 3804	4
RTE 3418C	3	RTE 3513C	3
RTE 3503C	3	HSC 4550	3
RTE 3684C	2	RTE 3116	3
HSC 3640	3		

Summer	13 hrs
STA 2023	3
RTE 4814L	5
RTE 3308	3
RTE 4563	2

Senior Year

Fall	13 hrs	Spring	14/16 hrs
RTE 4385	1	RTE 4834	4
RTE 4762	3	RTE 4854**	2
RTE 4824L	6	RTE 4782	2
RTE 4573	3	RTE 4473	3
		RTE 4206	3
		Electives:	
		RTE 4209 or RTE 4903	(2)

Summer	6 hrs
RTE 4844	4
RTE 4854**	2

**Completed during the Spring or Summer semester/term.

RADIOLOGIC SCIENCES (B.S.)

AS to BS TRACK

Note: For detailed information about this programs, see description in the AS to BS Program section.

RESTAURANT AND FOODSERVICE MANAGEMENT (B.S.)

Rosen School of Hospitality Management
Classroom Building I, Suite 302 (407) 823-2188
<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	3hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics	3 hrs
Or	
Select ECO 2023 Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs
2. Common Program Prerequisites	(6 hrs)
HFT 1000 Introduction to Hospitality Management	3 hrs
FSS 2221C Quantity Food Preparation	3 hrs
3. Management Tools	(25 hrs)
HFT 2403 Hospitality Financial Accounting	3 hrs
HFT 2500 Hospitality Marketing	3 hrs
HFT 2200 Hospitality Human Resources	3 hrs
HFT 2444 Hospitality Information Systems	3 hrs
HFT 3933 Distinguished Lectures in Hospitality Management	1 hrs
HFT 3600 Legal Environment in Hospitality	3 hrs
HFT 3431 Hospitality Managerial Accounting	3 hrs
HFT 3540 Guest Services Management	3 hrs
HFT 3261 Restaurant Management	3 hrs
4. Internship	(3 hours)
HFT 3941 Practicum I	1 hr
HFT XXXX Practicum II	1 hr
HFT 4941 Practicum III	1 hr
5. Restaurant Management Core	(18 hours)
HFT 4268 Case Studies in Restaurant Management	3 hrs
HFT 4343 Hospitality Facilities, Planning and Design	3 hrs
FSS 3124 Supply and Procurement Management	3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs	3 hrs
HFT 4266 Restaurant Brand Management	3 hrs
FSS 4338 Food and Beverage Management in Hospitality Operations	3 hrs
6. Special School 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.	
7. Restricted Electives	(18 hrs)
Choose any courses from the list below for a total of 18 credit hours	
HUN 3013 Nutrition Concepts and Issues in Foodservice	3 hrs
FSS 3232C Intermediate Techniques of Food Production	3 hrs
HFT 3807 Multi-Unit Food Service Operations	3 hrs
FSS 4286C Catering and Banquet Organization	3 hrs
HFT 4645 Restaurant Real Estate, Site Selection and Modeling	3 hrs
HFT 4861 Beverage Management	3 hrs
HFT 4425 Financial Analysis for Restaurant Managers	3 hrs
HFT 4XXX Restaurant Technology and MIS	3 hrs
HFT 3574 Foodservice Marketing, Advertising, and Promotion Management	3 hrs
HFT 4871 Case Studies in Multi-Unit Restaurant Mgt	3 hrs
HFT 3654 Franchising in the Restaurant Industry	3 hrs
HFT 4281 Restaurant Leadership Strategies and Tactics	3 hrs
HFT 4453 Food, Beverage and Labor Cost Controls	3 hrs
FSS 3003 Culture and Cuisine	3 hrs
HFT 3XXX Law and Restaurant Management	3 hrs
HFT 4XXX International Restaurant Corporation Management	3 hrs
HFT 4XXX The Micro-Economics of Foodservice	3 hrs
HFT 4XXX Restaurant Interior and Environmental Design	3 hrs
HFT 4XXX Issues in Restaurant Performance	3 hrs

HFT 3834	Management & Training	
HFT 4864	Topics in Restaurant & Foodservice Management	3 hrs
	Anheuser-Busch Seminar in Quality Brewing and Fine Beer	3 hrs
HFT 4XXXX	Exploring Wines of the World	3 hrs

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. University Minimum Exit Requirements

- A 2.000 UCF GPA
- 48 hours of upper division credit completed
- 30 semester hours of coursework completed in residency (last 30 hours) at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable).

10. Unrestricted Electives (6 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's Rosen School 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 School of Hospitality Management.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

Four Year Plan of Study for B.S. Restaurant Management*

Plan your required nine summer credit hours into your course of study.

Freshman Year			
Fall			
ENC 1101 - Eng Comp I	3 Hrs	ENC 1102 - Eng Comp II	3 Hrs
Cult/Hist Found Sequence I	3 Hrs	SPC 1600 - Fund Oral Comm	3 Hrs
CGS 2100C or STA 2023	3 Hrs	Cult/Hist Found Sequence II	3 Hrs
HFT 1000 - Intro to Hosp Man	3 Hrs	MAC 1105 - College Algebra	3 Hrs
PSY 2012, SYG 2000, or ANT 2000	3 Hrs	FSS 2221C - Quant Food Prep	3 Hrs
Spring			
15 Hrs			
Sophomore Year			
Fall			
Science Foundation I	3 Hrs	Science Foundation II	3 Hrs
ECO 2013 or ECO 2023	3 Hrs	Cult/Hist Foundation	3 Hrs
HFT 3261 - Restaurant Mgmt	3 Hrs	FSS 3124 - Sup & Prod Mgmt	3 Hrs
HFT 2403 - Hosp Fin Acct	3 Hrs	HFT 2444 - Hosp Info Systems	3 Hrs
HFT 2220 - Hosp Hum Res Mgmt	3 Hrs	HFT 2500 - Hosp Marketing	3 Hrs
Spring			
15 Hrs			
Junior Year			
Fall			
HFT 3540 - Guest Svc Mgmt	3 Hrs	HFT 4268 - Case Studies in F.S.	3 Hrs
HFT 4266 - Rest Brand Mgmt	3 Hrs	FSS 4135 - Corp Contract & MS	3 Hrs
HFT 3431 - Hospitality Mgr Acct	3 Hrs	HFT 4343 - F.S. Equip & Design	3 Hrs
FSS 4338 - F&B Mgmt in Hosp Ops	3 Hrs	Restaurant Elective	3 Hrs
HFT 3940 - Practicum I	1 Hr	HFT XXXX - Practicum II	1 Hr
HFT 3933 - Dist Lect in Hosp	1 Hr	HFT 3600 - Legal Envir in Hosp	3 Hrs
Spring			
16 Hrs			
Senior Year			
Fall			
Rest & F.S. Elective	3 Hrs	FSS 4844- Sanitation & Safety	3 Hrs
Rest & F.S. Elective	3 Hrs	Rest & F.S. Elective	3 Hrs
Rest & F.S. Elective	3 Hrs	Rest & F.S. Elective	3 Hrs
HFT 4941 - Practicum 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 building, second floor, 407-823-5791

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

Coordinator: Aldrin Sweeney, 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 four parts of the CLAST examination (no alternatives are accepted)
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program

A. Communication Foundations		(9 hrs)
ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations		(9 hrs)
AMH 2010	U.S. History 1492-1877	3 hrs
AMH 2020	U.S. History 1877-Present	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations		(6 hrs)
MGF 1106	Finite Mathematics	3 hrs
Select one:		3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Foundations		(6 hrs)
POS 2041	American National Government	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations		(6 hrs)
PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	

Note: See laboratory component under Section 2.

2. Common Program Prerequisites

A. Communications		(9 hrs)
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities		(6 hrs)
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	
C. Mathematics		(9 hrs)
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Science/History		(12 hrs)
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science		(9 hrs + lab)
BSC 2010C	General Biology w/Lab	4 hrs
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
F. Education Courses		(9 hrs)
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP
H. Other Program Prerequisites		(12 hrs)
BSC 2011C	Biological Diversity	4 hrs

UCF Degree Programs

Science Sequence		
CHM 2045C	Chemistry Fundamentals I <i>and</i>	4 hrs
CHM 2046	Chemistry Fundamentals II <i>or</i>	4 hrs
PHY 2053C	College Physics I <i>and</i>	
PHY 2054C	College Physics II	

3. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
LAE 4361	Literacy Strategies for Mid/High School	3 hrs

4. Internship I Block (7 hrs)

SCE 4360	Science Instructional Analysis	4 hrs
ESE 3940	Internship I	3 hrs

- At least 50% of all required biology courses must be completed before doing Internship I
- See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (22 hrs)

PSC 1121	Physical Science	GEP
BSC 2010C	General Biology	GEP
BSC 2011C	Biological Diversity	CPP
CHM 2045C	Chemistry Fundamentals I and	CPP
CHM 2046	Chemistry Fundamentals II	CPP
CHM 2046L	Chemistry Fundamentals Lab	CPP
CHM 2205	Intro to Organic and Biochemistry	5 hrs
PCB 3063	Genetics	3 hrs
PCB 3063L	Genetics Lab	1 hr
PCB 3034	Ecology	3 hrs
PCB 3034L	Ecology Lab	1 hr
MCB 3020C	Microbiology	5 hrs
PCB 3703C	Human Physiology <i>or</i>	4 hrs
ZOO 3733C	Human Anatomy	

6. Restricted Electives (3 hrs)

One 3000- or 4000- level BSC, MCB, PCB, or ZOO course with advisor's approval

7. Internship II (ESE 4943) (12 hrs)

- SCE 4360 and at least 80% of all required biology courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- 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 6A-5.065

Note: Internship II includes a 3 SH module on assessment

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)

Total Semester Hours Required

126 hours

SCIENCE EDUCATION - CHEMISTRY (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor, 407-823-5791

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

Coordinator: Aldrin Sweeney, 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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program (37 hrs)

A. Communication Foundations		(9 hrs)
ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations		(9 hrs)
AMH 2010	U.S. History 1492-1877	3 hrs
AMH 2020	U.S. History 1877-Present	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations		(6 hrs)
MGF 1106	Finite Mathematics	3 hrs
Select one:		
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Foundations		(6 hrs)
POS 2041	American National Government	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations		(7 hrs)
PHY 2053C	College Physics (includes lab)	4 hrs
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	

2. Common Program Prerequisites (23 hrs)

A. Communications		(9 hrs)
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities		(6 hrs)
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	
C. Mathematics		(9 hrs)
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Science/History		(12 hrs)
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science		(9 hrs + lab)
BSC 2010C	General Biology w/Lab	4 hrs
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
F. Education Courses		(9 hrs)
EDF 2005	Introduction to Education	3 hrs

EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP
H. Other Program Prerequisites		(4 hrs)
CHM 2045C	Chemistry Fundamentals I	4 hrs

3. Education Pre-Professional Requirements (3 hrs)
 MAC 1114 College Trigonometry 3 hrs

4. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
LAE 4361	Literacy Strategies for Mid/High School	3 hrs

5. Internship I Block (7 hrs)

SCE 4360	Science Instructional Analysis	4 hrs
ESE 3940	Internship I	3 hrs

- At least 50% of all required chemistry courses must be completed before doing Internship I
- See additional requirements listed under College of Education, Office of Clinical Experiences

6. Specialization Requirements (27 hrs)

BSC 2010C	General Biology	GEP
CHM 2045C	Chemistry Fundamentals I	CPP
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2046L	Chemistry Fundamentals Lab	1 hr
PHY 2053C	College Physics I	GEP
PHY 2054C	College Physics II	4 hrs
CHM 3120C	Analytical Chemistry	5 hrs
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

7. Restricted Electives (3 hrs)
 One 3000- or 4000- level CHM, CHS, or BCH course with advisor's approval

8. Internship II (ESE 4943) (12 hrs)

- SCE 4360 and at least 80% of all required chemistry courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- 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 6A-5.065

Note: Internship II includes a 3 SH module on assessment

9. Foreign Language Requirements (0-8 hrs)
 State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF

- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 127 hours

SCIENCE EDUCATION - PHYSICS (B.S.)

College of Education
Department of Teaching and Learning Principles
ED building, second floor, 407-823-5791

<http://www.edcollege.ucf.edu/>
Coordinator: Aldrin Sweeney, 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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)	
ENC 1101	Composition I 3 hrs
ENC 1102	Composition II 3 hrs
SPC 1600	Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations (9 hrs)	
AMH 2010	U.S. History 1492-1877 3 hrs
AMH 2020	U.S. History 1877-Present 3 hrs
PHI 2010	Introduction to Philosophy 3 hrs
C. Mathematical Foundations (6 hrs)	
MAC 1105	College Algebra 3 hrs
Select one:	
STA 1060C	Basic Statistics using MS Excel <i>or</i>
STA 2014C	Principles of Statistics 3 hrs
D. Social Foundations (6 hrs)	
POS 2041	American National Government 3 hrs
PSY 2012	General Psychology 3 hrs
E. Science Foundations (6 hrs)	
PHY 2048	Physics for Engineers & Scientists I 3 hrs
Select one:	
AST 2002	Astronomy <i>or</i>
GEO 1200	Physical Geography <i>or</i>
GLY 1030	Geology and its Applications 3 hrs

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (21 hrs)

A. Communications (9 hrs)	
ENC 1101	Composition I GEP
ENC 1102	Composition II GEP
SPC 1600	Fundamentals of Oral Communication GEP
B. Humanities (6 hrs)	
PHI 2010	Introduction to Philosophy GEP
Select one:	
ARH 2050	The History of Art I <i>or</i>
ARH 2051	The History of Art II <i>or</i>
MUL 2010	Enjoyment of Music <i>or</i>
THE 2000	Theatre Survey <i>or</i>
FIL 1001	Cinema Survey 3 hrs
C. Mathematics (10 hrs)	
MAC 1105	College Algebra GEP
MAC 2311	Calculus with Analytic Geometry I 4 hrs
One of the following (per GEP)	
STA 1060C	Basic Statistics using MS Excel <i>or</i>
STA 2014C	Principles of Statistics GEP
D. Social Science/History (12 hrs)	
AMH 2010	U.S. History 1492-1877 GEP
AMH 2020	U.S. History 1877-Present GEP
POS 2041	American National Government GEP
PSY 2012	General Psychology GEP
E. Science (11 hrs + lab)	
BSC 2010C	General Biology w/Lab 4 hrs
PHY 2048	Physics for Engineers & Scientists I GEP
PHY 2048L	Physics Lab for Eng. & Scientists I 1 hr
One of the following (per GEP)	
AST 2002	Astronomy <i>or</i>
GEO 1200	Physical Geography <i>or</i>
GLY 1030	Geology and its Applications GEP

UCF Degree Programs

F. Education Courses	(9 hrs)
EDF 2005 Introduction to Education	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs
EME 2040 Technology for Educators	3 hrs
G. Diversity Courses	GEP

3. Education Core Requirements	(15 hrs)
EDG 4323 Professional Teaching Practices	3 hrs
EDF 4603 Analysis of Critical Issues in Education	3 hrs
EDF 4214 Classroom Learning Principles	3 hrs
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools	3 hrs
LAE 4361 Literacy Strategies for Mid/High School	3 hrs

4. Internship I Block	(7 hrs)
SCE 4360 Science Instructional Analysis	4 hrs
ESE 3940 Internship I	3 hrs
<ul style="list-style-type: none"> At least 50% of all required physics courses must be completed before doing Internship I See additional requirements listed under College of Education, Office of Clinical Experiences 	

5. Specialization Requirements	(26 hrs)
BSC 2010C General Biology	GEP
CHM 2045C Chemistry Fundamentals I	4 hrs
CHM 2046 Chemistry Fundamentals II	3 hrs
CHM 2046L Chemistry Fundamentals Lab	1 hr
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
PHY 2048 Physics for Scientists I	GEP
PHY 2048L Physics Lab for Engineers & Scientists I	GEP
PHY 2049 Physics for Scientists II	3 hrs
PHY 2049L Physics Lab for Engineers & Scientists II	1 hr
PHY 3101 Physics for Engineers & Scientists III	3 hrs
PHY 3752C Physics of Scientific Instruments	3 hrs

6. Restricted Electives	(8 hrs)
3000- or 4000- level PHY or PHZ courses with advisor's approval	

7. Internship II (ESE 4943)	(12 hrs)
<ul style="list-style-type: none"> SCE 4360 and at least 80% of all required physics courses must be completed before doing Internship II See additional requirements under College of Education, Office of Clinical Experiences 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 6A-5.065 	

Note: Internship II includes a 3 SH module on assessment

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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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)

Total Semester Hours Required **125 hours**

SOCIAL SCIENCES (B.S.) College of Arts and Sciences Liberal Studies Program, CNH 201 http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

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 Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Social Sciences major at least one semester before graduation
- Co-op and internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the 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
- Students should consult with a Liberal 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

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra (or higher)	3 hrs
Select STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	
Select ECO 2013 or POS 2041, depending on concentration to be followed	3 hrs
Select PSY 2012 or SYG 2000, depending on concentration to be followed	3 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (6 hrs)

Select no more than two lower level Social Science courses depending on disciplines selected. *Asterisk indicates appropriate courses.

3. Core requirements (3 hrs)

Select one course	
POS 3703	Scope and Methods of Political Science
PSY 3214C	Research Methods in Psychology
SYA 3300	Research Methods (Sociology)

4. Restricted Electives (60 hrs)

Select a minimum of 15 semester hours in each of four Social Science disciplines.

Communication		
COM 3311	Communication Research Methods	3 hrs
Select one course		3 hrs
RTV 3000	Foundations of Broadcasting	
RTV 4403	Radio, Television and Society	
JOU 3004	History of American Journalism	
Select three more Communication courses		9 hrs
Economics		
*ECO 2013	Macroeconomics	3 hrs
*ECO 2023	Microeconomics	3 hrs
Select three more Economics courses		9 hrs
Political Science		
*POS 2041	American National Government	3 hrs
Select four more Political Science courses		12 hrs
Psychology		
*PSY 2012	General Psychology	3 hrs
PPE 3003	Personality Theory	3 hrs
Select three more Psychology courses		9 hrs
Public Administration		
Select one course		4 hrs
CCJ 3024	Criminal Justice System	

PLA 3013	Law and the Legal System	
PAD 3003	Introduction to Public Administration	4 hrs
Additional 7 hours of Public Administration courses		7 hrs
Sociology/Anthropology		
*SYG 2000	General Sociology	3 hrs
*ANT 2000	General Anthropology	3 hrs
Select three additional Soc/Anthro 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

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: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension from a list of selected courses (see a Liberal Studies advisor)

7. Electives (variable)

Select primarily from upper level courses, with a Liberal Studies advisor's approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Liberal Studies, Liberal Arts

Related Minors: Anthropology, Communication, Economics, Political Science, Psychology, Public Administration, Sociology

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 and for use in the degree program by the Liberal Studies Advising Team. 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 admission requirements. However, the indicated courses are prerequisites for subsequent courses and must be taken.

SOCIAL SCIENCE EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor, 407-823-5791

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

Coordinator: William Gaudelli, 407-823-0215

E-mail: wgaudell@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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program (36 hrs)

A. Communication Foundations		(9 hrs)
ENC 1101	Composition I	3 hrs

ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations		(9 hrs)
AMH 2010	U.S. History 1492-1877	3 hrs
AMH 2020	U.S. History 1877-Present	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations		(6 hrs)
MGF 1106	Finite Mathematics	3 hrs
Select one:		3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Foundations		(6 hrs)
POS 2041	American National Government	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations		(6 hrs)
PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Note: See laboratory component under Section 2.		

2. Common Program Prerequisites (25 hrs)

A. Communications		(9 hrs)
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities		(6 hrs)
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	
C. Mathematics		(9 hrs)
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Science/History		(12 hrs)
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science		(9 hrs + lab)
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy	
GEO 1200	Physical Geography	
GLY 1030	Geology and its Applications	
Select one associated science lab:		1 hr
BSC 1005L	Biological Principles Laboratory	
GEO 1200L	Physical Geography Laboratory	
PSC 1121L	Physical Science Laboratory	
F. Education Courses		(9 hrs)
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP
H. Other Program Prerequisites		(6 hrs)
SYG 2000	General Sociology	3 hrs
ECO 2013	Macroeconomics	3 hrs

3. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
LAE 4361	Literacy Strategies for Mid/High School	3 hrs

4. Internship I Block (7 hrs)

SSE 4361	Social Science Instructional Analysis	4 hrs
ESE 3940	Internship I	3 hrs

- At least 50% of all required social science courses must be completed before doing Internship I

- See additional requirements listed under College of Education, Office of Clinical Experiences

UCF Degree Programs

5. Specialization Requirements (27 hrs)

EUH 2000	Western Civilization I	3 hrs
EUH 2001	Western Civilization II	3 hrs
AMH 2010	US History 1492-1877	GEP
AMH 2020	US History 1877-Present	GEP
SYG 2000	General Sociology	CPP
ECO 2013	Macroeconomics	CPP
ECO 2023	Microeconomics	3 hrs
GEO 3470	World Political Geography	3 hrs
Upper Division Non-Western History Elective:		3 hrs
	LAH, AFH, or ASH prefix courses	
Upper Division Political Science Electives		6 hrs
Upper Division American History Electives		6 hrs

6. Internship II (ESE 4943) (12 hrs)

- SSE 4361 and at least 80% of all social science courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- 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 6A-5.065

Note: Internship II includes a 3 SH module on assessment

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.
- 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.

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
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Semester Hours Required 122 hours

SOCIAL WORK (B.S.W.)

College of Health and Public Affairs

HPA I 204, 407-823-2114

<http://www.cohpa.ucf.edu/social/>

Director: Paul Maiden

Undergraduate Program Coordinator: Robin Kohn

E-mail: rkohn@mail.ucf.edu

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 2.0 overall GPA (**Note:** effective January 2004, a 2.5 GPA will be required)
- 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 reviewed for acceptance include intelligence, initiative, social concern, appreciation for human diversity, dependability, humanitarian interests in helping people and in improving human services as well as college-level reading and writing skills.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Social Work
- Students should complete the General Education Program, the CLAST and the Common Program Prerequisite Requirements before beginning the Social Work Program
- Students should consult with a school advisor
- The courses designated in sections 1 (general education) and 2 (common program prerequisites) below may be taken at a college or university other than UCF, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 is required in all Social Work courses with at least a grade of "C-" in each course.
- Students must earn an overall GPA of 2.5 for entry into field education (SOW 4510) and 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
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Math	
Select STA 2014C-Principles of Statistics or STA 2023 Statistical Methods I	
D. Social Foundations	6 hrs
Select PSY 2012 and POS 2041	
E. Science Foundations	6 hrs
Select BSC 1005	
Select a listed science course	

2. Common Program Prerequisites* (15 hrs)

POS 2041	American Government	GEP
BSC 1005	Biology	GEP
ECO 2013 <i>or</i>	Macroeconomics <i>or</i>	3 hrs
ECO 2023	Microeconomics	
PSY 2012	Psychology	GEP
SYG 2000	Sociology	3 hrs

*See transfer notes

3. Core Requirements (45 hrs)

SOW 3104	Assessing I: Human Development	3 hrs
SOW 3203	Social Welfare 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 3420	Social Work with Minorities	3 hrs
SOW 4431	Evaluating Social Work Practice and Service Programs	3 hrs
SOW 4232	Social Welfare Policies and Issues	3 hrs
SOW 4341	Micro-level Roles and Interventions in Social Work	3 hrs
SOW 4343	Macro-level Roles and Interventions in Social Work	3 hrs
SOW 4510	Field Education	9 hrs
SOW 4522	Field Education Seminar	3 hrs

4. Required Social Work Elective 3 hrs

5. Required Principles of Statistics 3 hrs

6. Electives (variable)

7. Foreign Language 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. Foreign Language or Cultural Diversity Requirement

Choose two of the following suggested courses: ANT 3332, ANT 3363, ANT 2410, ANT 3640, ASH 4404, ASH 4442, CPO 4303, HUM 3401, HUM 3417, HUM 3419, JST 3401, JST 3402, JST 3820, LAH 3130, LAH 3200, LAH 3400, LAH 3470, AMH 3561, AMH 3571, AMH 3586, ANT 3302, ANT 3311, ANT 3313, SOP 3724, SOP 3742, SPA 3621, SYD 3700 or see advisor for more options.

9. Departmental Exit Requirements (120 hours)

A minimum overall GPA of 2.5 with at least a grade of "C-" (1.75) 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.

Aging Studies Certificate: In recognition of the special needs of the elderly citizens of Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major.

The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education or art education. All students must contact the Coordinator for planning their internship.

Children's Services Certificate: The Children's Services Certificate is designed to prepare students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Addictions Certificate: The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

Related Minors: Health Services Administration, Aging Studies, Psychology, Sociology

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/Social Problems
 Principles of Statistics

Tentative Course Schedule for Entering Freshmen

Freshman Year*		14 hrs	Spring	15 hrs
Fall				
ENC 1101	3	ENC 1102	3	
BSC 1005	3	MGF 1106	3	
SYG 2000 or PSY 2012	3	PSY 2012 or SYG 2000	3	
STA 2014C	3	MUL 2010 or THE 2000	3	
PAF 2102	2	or REL 2302 or PHI 2010		
		POS 2041	3	

*Plan your required nine summer hours into your course of study

Sophomore Year

Fall		15/16 hrs	Spring	12/13 hrs
ECO 2013 or ECO 2023	3	Foreign Lang II or	3/4	
EUH 2000 or WOH 2012 or	3	Cult Diversity		
HUM 2211 or AMH 2010		CHM 1020 or PSC 1121 or	3	
		AST 2002		
SPC 1600	3	Elective	3	
Elective	3	EUH 2001 or	3	
Foreign Lang I or Cult Diversity	3/4	HUM 2230 or AMH 2020		

Summer		6 hrs
Elective	3	
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 3420	3	
STA 2014C	3	Elective	3	

Senior Year

Fall		15/18 hrs	Spring	13 hrs
SOW 4232	3	SOW 4510	9	
SOW 4341	3	SOW 4522	3	
SOW 4343	3	Elective	1	
SOW 4431	3			
Elective	3			
Elective (if necessary)	3			

SOCIOLOGY (B.A.)

College of Arts and Sciences

Department of Sociology and Anthropology, PH 403,

407-823-2227,

http://www.cas.ucf.edu/soc_anthro/firstpage.html

E-mail: sociology@ucf.edu

J. Corzine, 407-823-2227

The Sociology curriculum emphasizes critical examination of various components of society. The purpose of the curriculum is to increase students' social awareness and their ability to employ a sociological perspective to interpret social institutions and behavior.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology and Anthropology 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 or internship credit cannot be used in this major
- Students should consult annually 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
 - Select MAC 1105 College Algebra (or higher) 3 hrs
 - Select STA 2023 Statistical Methods I 3 hrs
- D. Social Foundations

UCF Degree Programs

Select one: ECO 2013, ECO 2023, POS 2041 3 hrs
 Select SYG 2000 General Sociology 3 hrs
 E. Science Foundations 6 hrs

2. Common Program Prerequisites none
 (It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

3. Core requirements (21 hrs)
 SYA 3300 Research Methods 4 hrs
 SYA 3400 Research Methods and Statistics 4 hrs
 SYA 4450 Data Analysis 4 hrs
 SYG 2000 General Sociology 3 hrs
 Select one course 3 hrs
 SYA 3110 Development of Social Thought
 SYA 3120 Modern Sociological Thought
 Select one course 3 hrs
 SYO 3530 Social Stratification
 SYP 4000 Sociological Social Psychology

4. Restricted Electives (24 hrs)
 Select eight courses from the following
 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
 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 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 4323 Social Systems and Diversity
 SYD 4510 Environmental Sociology
 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 4734 Minority Aging
 SYP 4810 Women in Contemporary Society
 SYP 5526 Sociological Criminology
 SYP 5562 Seminar on Domestic Violence

- Eligible students may enroll for three to 16 semester hours of Internship in SYA 3940, SYA 4941, or SYA 5944. Arrangements for Internships are coordinated by the Department and require prior approval.
- All special topics courses listed under the prefixes SYA, SYD, SYO, and 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 of "C" (2.0) in all core courses
 ■ Computer Competency met by SYA 4450
 ■ Students will be required to take a standard exit exam

6. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.

Graduation: Two semesters or equivalent proficiency exam and either a third semester/proficiency or an approved enhancement course. A list of approved enhancement courses is available from the department.

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 hours

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:
 ■ 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.

SPANISH (B.A.)
College of Arts and Sciences
Department of Foreign Languages & Literatures, CNH 523
<http://pegasus.cc.ucf.edu/~forlang>
E-Mail: foreignlanguage@ucf.edu
 C. E. Stebbins, 407-823-2472

Admission Requirements none

Placement in Language courses
 ■ 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 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 Foreign 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 Foreign 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

Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (0-14 hrs)

SPN 1120*	Elem Spanish Lang & Civ I	4 hrs
SPN 1121*	Elem Spanish Lang & Civ II	4 hrs
SPN 2230*	Interm Spanish Lang & Civ I	3 hrs
SPN 2231*	Interm Spanish Lang & Civ II	3 hrs

* May be met by proficiency test or completion of SPN 2231

3. Core requirements (15 hrs)

SPN 3300*	Advanced Grammar	3 hrs
SPN 3420*	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.

4. Upper Division Restricted Electives (21 hrs)

Select one of the following

FOL 3730	Romance Philology	3 hrs
SPN 4801	Spanish Morphosyntax	
SPN 4800	Spanish American Syntax	
SPN 4780	Spanish Phonetics	
SPN 3852	Bilinguismo	
Spanish literature beyond the survey level (taught in Spanish)		6 hrs
Culture and Civilization		3 hrs
SPN 4510	Spanish Civilization & Culture <i>or</i>	
SPN 4520	Latin American Civilization & Culture	
Spanish courses		9 hrs

- 5. Departmental Exit Requirements**
- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division Spanish courses
 - Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
 - Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
Admission: Met by Graduation requirements.
Graduation: Met by Common Program Prerequisites.

7. Electives (variable)
 Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

- 8. University Minimum Exit Requirements**
- A 2.0 UCF GPA
 - 60 semester hours earned after CLEP awarded
 - 48 semester hours of upper division credit completed
 - 30 of the last 36 hours of course work must be completed in residency at UCF
 - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
 - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: French, Foreign Language Combination
Related Minors: French, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian 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.
 - Native speakers, or students who have received advanced edu-

cation in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.

SPORTS AND FITNESS (B.S.) AS to BS Track

Note: For detailed information about this program, see the description in the AS to BS Program section.

STATISTICS (B.S.)

**College of Arts and Sciences
 Department of Statistics, CC II 212, 407-823-2289**

<http://www.cas.ucf.edu/statistics>

E-mail: statistics@ucf.edu

L. Hoffman, 407-823-5525

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a "C" (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (39 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
Select MAC 2311 Calculus I	4 hrs
Select STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	4 hrs
Select BSC 2010C General Biology	4 hrs
Select PHY 2053C College Physics or	
CHM 2045C Chemistry Fundamentals	4 hrs

2. Common Program Prerequisites (7 hrs)

COP 3502C*	Computer Science I	3 hrs
MAC 2311	Calculus I	GEP
MAC 2312	Calculus II	4 hrs
BSC 2010C*	General Biology	GEP

*See Transfer Notes for possible substitutes

3. Core requirements (51 hrs)

STA 2023	Statistical Methods I	GEP
STA 4102	Computer Process of Stat Data	3 hrs
STA 4165	Statistical Methods II with Computer	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 Analytic Geo III	4 hrs
ENC 3241	Technical Report Writing	3 hrs
COP 3223	C Language*	3 hrs

*may substitute an approved programming language course
 Select one course

MAS 3106	Linear Algebra	
MAS 3105	Elementary Linear and Matrix Algebra	

Select one course

COT 3100C	Introduction to Discrete Structure	
MHF 3302	Logic and Proof in Mathematics	

Select three from among the following:

STA 3096	Statistical Graphics	
STA 4173	Biostatistical Methods	
STA 4222	Sample Survey Methods	
STA 4502	Nonparametric Stat Methods	
STA 4664	Statistical Quality Control	

UCF Degree Programs

STA 4852	Applied Time Series	4 hrs
Select two courses and associated labs (incl. 4 hrs GEP)		
BSC 2011C	Biological Diversity	
CHM 2045C	Chemistry Fundamentals I	
CHM 2046 & L	Chemistry Fundamentals II	
PHY 2053C	College Physics I	
PHY 2054C	College Physics II	
Select one course		3 hrs
Select any science course from the College of Arts & Sciences or any 3000-4000 level science course from the college of Health & Public Affairs		

4. Restricted Electives (6 hrs)

- Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses
- Selected courses in engineering or business may be used but must first be approved by the Statistics Department
- MAC 2233, 2253, 2254; all MAE courses; and MHF 4404 may not be used

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each STA course
- Computer Competency met by STA 4102

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 hours

Related Programs: Mathematics, Mathematics Education, Actuarial Science Track

Related Minors: Statistics, Mathematics

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:

- 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.

STATISTICS - ACTUARIAL SCIENCE TRACK (B.S.)

See Actuarial Science (B.S.)

THEATRE (B.A.)

College of Arts and Sciences

Department of Theatre, THE 120 407-823-2861

<http://pegasus.cc.ucf.edu/~theatre>

E-mail: theatre@ucf.edu

Rusnock, 407-823-2861

The Bachelor of Arts Degree is offered for students who do not plan to pursue the theatre as a profession. BA students may be interested in a Liberal Arts education or may eventually choose to pursue graduate studies in theatre.

Admission Requirements

- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department Chair.
- The departmental faculty evaluate students desiring to become majors via an interview, audition and portfolio review. For complete information, contact the Department of Theatre.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must maintain a minimum "C" (2.0) overall Theatre GPA to continue in the major
- Co-op or internship credit cannot be used in this major
- Students must consult with a departmental advisor
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled courses taken from the UCF Theatre Department
- All theatre students must participate, in some capacity, on one of the main-stage productions during a minimum of four semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped as a 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
Select SPC 1600 Fund Oral Communication	3 hrs
Select two semesters of English Composition	6 hrs
B. Cultural and Historical Foundations	9 hrs
Select one two semester sequence	6 hrs
Select THE 2000 Survey of Theatre	3 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Select CGS 1060C Intro to Computer Sci	3 hrs
CGS 2100C Computer Fund for Business	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (12 hrs)

THE 2020*	Survey of Theatre for majors	GEP
THE 3305*	Dramatic Literature I	3 hrs
THE 2090*	Theatre Production/Perform I	1 hr
TPA 2290*	Theatre Production/Perform I	1 hr
TPA 2210*	Stagecraft I	3 hrs
TPP 2190*	Theatre Production/Perform I	1 hr
TPP 2110*	Acting I - Introduction	3 hrs
*See Transfer Notes for possible substitutes		

3. Core requirements (15 hrs)

THE 3110	Theatre History I	3 hrs
THE 3111	Theatre History II	3 hrs
THE 3303	Play Analysis	3 hrs
THE 3306	Dramatic Literature II	3 hrs
TPP 3310C	Directing I	3 hrs

4. Restricted Electives (16 hrs)

Select 16 hours from the following		
THE 3230	Cultural Diversity - Theatre	3 hrs
THE 3240	Musical Theatre Survey	3 hrs
THE 5307	Contemporary Theatre Practice	3 hrs
THE 4372	Drama of Tennessee Williams	3 hrs
THE 4093	Theatre Production/Perf IV	1 hr
THE 4094	Theatre Production/Perf V	1 hr
THE 4096	Theatre Production/Perf VI	1 hr
THE 4097	Theatre Production/Perf VII	1 hr
TPA 3043C	Costume History I	3 hrs

TPA 3197	Summer Theatre Studio/Tech/Design	3 hrs
TPA 3195	Theatre Studio/Tech/Design	3 hrs
TPA 3601	Stage Management	3 hrs
TPA 3044C	Costume History II	3 hrs
TPA 4400	Theatre Management	3 hrs
TPP 3197	Summer Theatre/Performance	3 hrs
TPP 3952	Studio Performance	3 hrs

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- Take a Departmental Exit Examination and write a critique of a theatre production
- Computer Competency met by computer science course

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Two semesters or equivalent proficiency exam.

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 hours**

Related Programs: Film, Music, Theatre BFA

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.

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 3305: may use THE 2300
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TPP 2190: may use TPP 1190
- TPP 2110: may use TPP 2210 or THE 2271
- TPA 2210: may use THE 2261

THEATRE (B.F.A.)

College of Arts and Sciences

Department of Theatre, THE 120 407-823-2861

<http://pegasus.cc.ucf.edu/~theatre>

E-mail: theatre@ucf.edu

Rusnock, 407-823-2399

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 performance, stage management, or design/tech. The BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements

- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition, and portfolio review. For complete information, contact the Department of Theatre.
- A **performance major** must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes
- **Performance majors** interested in musical theatre should prepare a ballad, with taped musical accompaniment, in addition to their monologues
- Design/Tech track requires an interview and portfolio review.
- The portfolio should contain no more than fifteen examples of the student's best work representing a variety of mediums. Three-dimensional pieces can be submitted in slide format. For details, contact the Department of Theatre.
- 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

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- 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
- Continuation in the BFA program requires a positive annual evaluation
- Co-op or internship credit cannot be used in this major
- Students must consult with a departmental advisor
- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department
- All theatre students should participate, in some capacity, on two of the three main-stage productions during both Fall and Spring semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped as a major
- All theatre students must include a participation credit course during every semester
- All BFA performance majors are required to audition for all Fall and Spring productions and must accept the rolls assigned
- Due to the conservatory nature, the BFA demands a closely integrated curriculum. Therefore, transfer students 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 | |
| Select SPC 1600 Fund Oral Communication | 3 hrs |
| Select two semesters of English Composition | 6 hrs |
| B. Cultural and Historical Foundations | |
| Select one 2 semester sequence | 6 hrs |
| Select THE 2000 Survey of Theatre | 3 hrs |
| C. Mathematical Foundations | |
| Select MGF 1106 Finite Mathematics (may substitute a higher level math) | 3 hrs |
| Prefer CGS 1060C Intro to Computer Sci <i>or</i> CGS 2100C Computer Fund for Business | 3 hrs |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites (12 hrs)

- | | | |
|-----------|----------------------------------|-------|
| THE 2020* | Survey of Theatre for majors | GEP |
| THE 3305* | Dramatic Literature I | 3 hrs |
| THE 2090* | Theatre Production/Performance I | 1 hr |
| TPA 2290* | Theatre Production/Performance I | 1 hr |
| TPA 2210* | Stagecraft I | 3 hrs |
| TPP 2190* | Theatre Production/Performance I | 1 hr |
| TPP 2110* | Acting I - Introduction | 3 hrs |

*See Transfer Notes for possible substitutes

UCF Degree Programs

3. Core Requirements

(18 hrs)

(all tracks except Musical Theatre)

TPA 2211	Stagecraft II	3 hrs
TPP 3650	Script Analysis	3 hrs
THE 3306	Dramatic Literature II	3 hrs
THE 3110	Theatre History I	3 hrs
THE 3111	Theatre History II	3 hrs
TPP 3310C	Directing I	3 hrs

4. Specialization: select one area

(60 hrs)

Performance Specialization

TPP 2170C	Acting II - Fundamentals	3 hrs
DAA 2200C	Ballet I	3 hrs
TPP 2710C	Voice Production I	2 hrs
TPP 3172C	Acting III - Characterization	3 hrs
TPP 4193	Thea. Prod./ Perf. IV	1 hr
TPP 4194	Thea. Prod./ Perf. V	1 hr
DAA 2201C	Ballet II	3 hrs
TPP 3512C	Stage Combat	2 hrs
TPP 3257	Music Thea. Voice I	2 hrs
TPP 3258	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 - Studio	3 hrs
TPP 4142C	Acting V - Verse	3 hrs
TPP 4265C	Acting for TV/Film	3 hrs
TPP 4531C	Period Movement	2 hrs
TPP 4940	Theatre Performance Internship	6 hrs
TPA 2248C	Makeup Techniques	2 hrs
TPP 3223	Marketing Yourself in Theatre	3 hrs
DAA 2570C	Theatre Jazz Dance	3 hrs
Restricted electives (see list of courses)		7 hrs

Stage Management Specialization

TPA 4602	Advanced Stage Management	3 hrs
TPA 4400	Theatre Management	3 hrs
TPP 2170C	Acting II - Fundamentals	3 hrs
TPA 2000C	Theatre Design Basics	3 hrs
TPA 2220	Stage Lighting	3 hrs
TPA 2248C	Makeup Techniques	2 hrs
TPA 3060	Scene Design I	3 hrs
TPA 3216C	Stagecraft III	3 hrs
TPA 3221	Lighting Design	3 hrs
TPA 3230	Costume Construction	3 hrs
TPA 3197	Summer Theatre Tech	3 hrs
TPA 3195	Theatre Studio Tech	3 hrs
TPA 4294	Thea. Prod./ Perf. IV	1 hr
TPA 4295	Thea. Prod./ Perf. V	1 hr
TPA 3601	Stage Management	3 hrs
TPA 3260	Sound Design for Theatre	3 hrs
TPA 4940	Design/Tech Internship	6 hrs
TPP 3223	Marketing Yourself in Theatre	3 hrs
Restricted electives (see list of courses)		8 hrs

Design/Tech Specialization

TPA 2220	Stage Lighting	3 hrs
TPA 2000C	Theatre Design Basics	3 hrs
TPA 3040	Costume Design	3 hrs
TPA 3043C	Costume History I	3 hrs
TPA 3044C	Costume History II	3 hrs
TPA 3060	Scene Design I	3 hrs
TPA 3061	Scene Design II	3 hrs
TPA 3077	Scene Painting	2 hrs
TPA 3216C	Stagecraft III	3 hrs
TPA 3221	Lighting Design	3 hrs
TPA 3197	Summer Theatre Tech	3 hrs
TPA 3195	Theatre Studio Tech	3 hrs
TPA 3230	Costume Construction	3 hrs
TPA 3250	Cadd for Theatre	2 hrs
TPA 3251	Advanced CADD for Theatre	2 hrs
TPA 4294	Thea. Prod./ Perf. IV	1 hr
TPA 3260	Sound Design for Theatre	3 hrs
TPA 4940	Technical Theatre/Design Internship	6 hrs
TPP 3223	Marketing Yourself in Theatre	3 hrs
Restricted electives (see list of courses)		5 hrs

5. Restricted Electives

(see specializations)

Chosen from the following

THE 3230	Cultural Diversity - Theatre	3 hrs
THE 3240	Musical Theatre Survey	3 hrs
THE 5307	Contemporary. Thea. Prac.	3 hrs
THE 4372	Drama of Tenn. Williams	3 hrs
TPA 3197	Summer Theatre Studio/Tech/Design	3 hrs
TPA 3195	Theatre Studio/Tech/Design	3 hrs
TPA 3601	Stage Management	3 hrs

TPA 4400	Theatre Management	3 hrs
TPP 3197	Summer Theatre Perform.	3 hrs
TPP 3952	Studio Performance	3 hrs

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- Take a Departmental Exit Examination
- Computer Competency met by Computer Science courses

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

none

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

129 hours

Related Programs: Film, Music, Theatre BA

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.

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 must be taken.
- THE 3305: may use THE 2300
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TPP 2190: may use TPP 1190
- TPP 2110: may use TPP 2210 or THE 2271
- TPA 2210: may use THE 2261

THEATRE - MUSICAL THEATRE TRACK (B.F.A.)

College of Arts and Sciences

Department of Theatre, THE 120 407-823-2861

<http://pegasus.cc.ucf.edu/~theatre>

E-mail: theatre@ucf.edu

Bell, 407-823-3020

The Bachelor of Fine Arts Track in Musical Theatre has been developed to serve those students interested in a career in the entertainment industry and 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. Disney, Universal, 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. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements

- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition, and portfolio review. For complete information, contact the Department of Theatre.
- A **major** must be interviewed and perform one monologue limited to one minute
- A **major** must prepare two ballads, in addition to their monologue, limited to a combined time of 2 minutes. An accompanist will be provided.
- 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

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- 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
- Continuation in the BFA program requires a positive annual evaluation
- Co-op or internship credit cannot be used in this major
- Students must consult with a departmental advisor
- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department
- All theatre students should participate, in some capacity, on two of the main-stage productions during both Fall and Spring semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped as a major
- All theatre students must include a participation credit course during every semester
- All BFA performance 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 curriculum. Therefore, transfer students 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 | |
| Select SPC 1600 Fund Oral Communication | 3 hrs | |
| Select two semesters of English Composition | 6 hrs | |
| B. Cultural and Historical Foundations | 9 hrs | |
| Select one 2 semester sequence | 6 hrs | |
| Select THE 2000 Survey of Theatre | 3 hrs | |
| C. Mathematical Foundations | 6 hrs | |
| Select MGF 1106 Finite Mathematics (may substitute a higher level math) | 3 hrs | |
| Prefer CGS 1060C Intro to Computer Sci <i>or</i> | 3 hrs | |
| CGS 2100C Computer Fund for Business | | |
| D. Social Foundations | 6 hrs | |
| E. Science Foundations | 6 hrs | |

2. Common Program Prerequisites

(12 hrs)

- | | | |
|-----------|----------------------------------|-------|
| THE 2020* | Survey of Theatre for majors | GEP |
| THE 3305* | Survey of Dramatic Literature I | 3 hrs |
| THE 2090* | Theatre Production/Performance I | 1 hr |
| TPA 2290* | Theatre Production/Performance I | 1 hr |
| TPA 2210* | Stagecraft I | 3 hrs |
| TPP 2190* | Theatre Production/Performance I | 1 hr |
| TPP 2110* | Acting I - Introduction | 3 hrs |

*See Transfer Notes for possible substitutes

3. Specialization: Lower Division

(24 hrs)

- | | | |
|-----------|--------------------------|-------|
| MUT 1004 | Music Fundamentals I | 3 hrs |
| MUT 1002 | Music Fundamentals II | 3 hrs |
| TPP 2170C | Acting II - Fundamentals | 3 hrs |
| DAA 2200C | Ballet I | 3 hrs |
| DAA 2201C | Ballet II | 3 hrs |
| DAA 2570C | Theatre Jazz Dance I | 3 hrs |

- | | | |
|-----------|-----------------------|-------|
| DAA 2571C | Theatre Jazz Dance II | 3 hrs |
| DAA 2520C | Theatre Tap Dance I | 3 hrs |

4. Specialization: Upper Division

(54 hrs)

- | | | |
|-----------|-----------------------------------|-------|
| TPP 3172C | Acting III - Characterization | 3 hrs |
| TPP 3250 | Musical Theatre Acting Perf I | 3 hrs |
| TPP 3252 | Musical Theatre Acting Perf II | 3 hrs |
| TPP 4253 | Musical Theatre Acting Perf III | 3 hrs |
| TPP 3241 | Survey of Musical Theatre I | 3 hrs |
| TPP 4242 | Survey of Musical Theatre II | 3 hrs |
| TPP 3223 | Theatre Careers | 3 hrs |
| TPP 4531C | Period Movement | 2 hrs |
| TPP 3512C | Stage Combat | 2 hrs |
| TPP 4255 | Musical Theatre Cabaret | 3 hrs |
| TPA 2248C | Make-up Techniques | 2 hrs |
| THE 3110 | Theatre History I | 3 hrs |
| TPP 3310C | Directing I | 3 hrs |
| TPP 4193 | Theatre Production/Performance IV | 1 hr |
| TPP 4194 | Theatre Production/Performance V | 1 hr |
| TPP 4195 | Theatre Production/Performance VI | 1 hr |
| TPP 3257 | Musical Theatre Voice I | 2 hrs |
| TPP 3258 | Musical Theatre Voice II | 2 hrs |
| TPP 4XXX | Musical Theatre Voice III | 2 hrs |
| TPP 4XXX | Musical Theatre Voice IV | 3 hrs |
| TPP 4940 | Internship | 6 hrs |

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- Take a Departmental Exit Examination
- Computer Competency met by Computer Science 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. Electives

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

129 hours

Related Programs: Film, Music, Theatre BA

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.

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 3305: may use THE 2300 or THE 3303 *or* TPP 3650
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TPP 2190: may use TPP 1190
- TPP 2110: may use TPP 2210 *or* THE 2271
- TPA 2210: may use THE 2261

UCF Degree Programs

VOCATIONAL EDUCATION AND INDUSTRY TRAINING (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor 407-823-5791

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

Coordinator: Larry Hudson, 407-823-2848,

E-mail: hudson@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
- Meet the University CLAST or CLAST alternative criteria (Track 1).
- Pass four parts of the CLAST examination (Track 2)
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

Track 1: For students in non-state-certified Vocational Education and Industry Training

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)		
ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations (9 hrs)		
C. Mathematical Foundations (6 hrs)		
MGF 1106	Finite Mathematics	3 hrs
Select one:		3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Foundations (6 hrs)		
E. Science Foundations (6 hrs)		

2. Common Program Prerequisites (9 hrs)

EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs

3. Program Core Requirements (27 hours)

EVT 3365	Gen Method/Test Eval	3 hrs
EVT 3062	Professional Role Voc Ed Teacher	3 hrs
EVT 3312	Course Const Health Occ Ed <i>or</i>	3 hrs
EVT 3371	Course Const Industrial Ed	
EVT 3502	Special Needs Voc Ed Students	3 hrs
EVT 4065	Princip/Prac Voc 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

4. Occupational Specialization Requirements (30 hrs)

Students must complete an area of specialization through one of the following routes:

- Occupation-specific courses
- Recognized occupational license/registration/certification
- Occupational examination
- Sufficient documentation demonstrating comparable occupational expertise equivalent to 30 semester hours of credit. Appropriate documentation must be provided to advisor before this will be submitted for credit.

5. Upper Division Electives (6 hrs)

(with advisor's approval)

6. Directed Field Experience (12 hrs)

- The Occupational Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience.

7. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single

foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

6. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Semester Hours Required 120 hours

Track 2: For students seeking state level teacher certification in Business Education (6-12) from the Florida Department of Education

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)		
ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations (9 hrs)		
AMH 2010	U.S. History 1492-1877	3 hrs
AMH 2020	U.S. History 1877-Present	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations (6 hrs)		
MGF 1106	Finite Mathematics	3 hrs
Select one:		3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Foundations (6 hrs)		
ECO 2013	Macroeconomics	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations (6 hrs)		
PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (31 hrs)

A. Communications (9 hrs)		
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities (6 hrs)		
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 1001	Cinema Survey	
C. Mathematics (9 hrs)		
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Science/History (12 hrs)		
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
ECO 2013	Macroeconomics	GEP
PSY 2012	General Psychology	GEP
E. Science (9 hrs + lab)		
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy	
GEO 1200	Physical Geography	
GLY 1030	Geology and its Applications	
Select one associated science lab:		1 hr
BSC 1005L	Biological Principles Laboratory	
GEO 1200L	Physical Geography Laboratory	
PSC 1121L	Physical Science Laboratory	

F. Education Courses		(9 hrs)
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP
H. Other Program Prerequisites		(15 hrs)
ACG 2023	Principles of Accounting I & II	6 hrs
ECO 2013	Macroeconomics	GEP
ECO 2023	Microeconomics	3 hrs
Elective in Business Administration (see advisor)		3 hrs

3. Education Core Requirements (12 hrs)

EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
LAE 4361	Literacy Strategies for Middle and High School	3 hrs

4. Program Core Requirements (21 hrs)

EVT 3365	Gen Method/Test Eval	3 hrs
EVT 3062	Professional Role Voc Ed Teacher	3 hrs
BTE 4410	Course Construction in Business Ed	3 hrs
EVT 3502	Special Needs Voc Ed Students	3 hrs
EVT 4065	Princip/Prac Voc Ed	3 hrs
EVT 4368	Adv Teaching/Techniques in Voc Ed	3 hrs
EVT 3367	Eval Vocation Instruction	3 hrs

5. Occupational Specialization Requirements (15 hrs)

Total occupational specialization requirement is 30 SH, 15 of which are met by courses selected under section H of common program prerequisites. An additional 15 SH of upper level courses are required to fulfill this requirement. See advisor.

6. Directed Field Experience (12 hrs)

- Occupational specialization and all course requirements must be completed before directed field experience
- Satisfactory completion of directed field experience 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

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.
- 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

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
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 127 hours

MINORS, CERTIFICATES, AND STUDY ABROAD

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

Minor

Accounting
Addictions Certificate
Aerospace Studies
African - American Studies
Aging Studies Certificate
Aging Studies
American Humanics
American Sign Language Certificate
American Studies
Anthropology
Anthropology in Multicultural Studies
Art History
Art - Studio
Asian Studies
Astronomy
Behavioral Forensics Certificate
Biology
Business
Chemistry
Children's Services Certificate
Coaching
Communicative Disorders
Community Arts - PAVE
Computer Information Technology
Computer Science
Computer Science - Applied
Crime Analysis and Crime Mapping Certificate
Criminal Justice
Criminal Profiling Certificate
Cultural Tourism Certificate
Digital Media
Digital Media Certificate
Early Childhood Education
e-Business
Economics
Emergency Management
English - Creative Writing
English - Linguistics
English - Literature
English - Technical Writing and Editing
English - Writing
Environmental Studies
Exceptional Education
Film - Cinema Studies
Fitness Training
French
German
Health Information Management
Health Sciences
Health Services Administration
History
Hospitality Management
Humanities
International Business
Interpersonal Communication
Italian

Jazz Studies Certificate
Judaic Studies
Language Development and Disorders Certificate
Latin American Area Studies
Legal Studies
Magazine Journalism
Management Information Systems
Marketing
Marketing Certificates
Mass Communication
Mathematics
Middle Eastern Studies
Military Science
Molecular Biology and Microbiology
Music
Music Technology Certificate
Non-Profit Management Certificate
North American Indian Studies
Organizational Communication
Philosophy
Physics
Political Science
Political Science/Prelaw
Psychology
Public Administration
Religious Studies
Russian Area Studies
Security Management Certificate
Social Sciences - Interdisciplinary
Sociology
Space Studies
Spanish
Statistics
Technology and Society
Theatre - General
Translation and Interpretation Certificate
Urban and Regional Planning
Vocational Education and Industry Training
Women's Studies
Women's Studies Certificate

Additional UCF Programs

Foreign Study Abroad Program:

Canada
Dominica
France
Germany
Italy
Japan
Jordan
South Africa
Spain

English Study Abroad Program:

Mexico
Scotland

ACCOUNTING: Minor for Business and Non-Business Majors

**College of Business Administration
School of Accounting, BA 437
(407) 823-2871**

Credit Hour Requirements 21 hours

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 *or* 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 3YYY Intermediate Financial Accounting 3 hrs
ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
ACG 4401 Accounting Information Systems 3 hrs
ACG 4651 Auditing 3 hrs
ACG 4671 Internal Auditing 3 hrs
ACG 4932 Approved Special Topics Courses in Accounting 3 hrs
TAX 4XXX Taxation of Business Entities and Transactions 3 hrs
FIN 3414 Intermediate Corporate Finance 3 hrs
FIN 4453 Financial Models 3 hrs
ISM 3005 MIS Techniques 3 hrs
ISM 4212 Database Management Systems 3 hrs

Other Requirements

- A grade of "C" (2.0) is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

ADDICTIONS: Certificate

**College of Health and Public Affairs
School of Social Work, HPA 204**

Paul Maiden, 407-823-2114
pmaiden@mail.ucf.edu

The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers.

Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

Admission Requirement:

This Certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addictions courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida.

Credit Hour Requirements: 12 hrs

Required Courses:
SOW 4706/5712 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 4705/5713 Prevention and Treatment of Adolescent Substance Abuse 3 hrs
SOW 5604 Medications in Social Work Practice 3 hrs
SOW 5937 Substance Abuse and Older Adults 3 hrs
SOW 5662 Strategies in Employee Assistance Programs 3 hrs
SOW 5907 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

AEROSPACE STUDIES: Minor

**College of Engineering and Computer Science
Air Force ROTC, TR 501 103**

Lt Col Timothy D. Wieck, 407-823-1247

Credit Hour Requirements 16 hours (16 hr)

Required Courses
AFR 1101 The Air Force Today I 1 hr
AFR 1111 The Air Force Today II 1 hr
AFR 2130 The Development of Air Power I 1 hr
AFR 2131 The Development of Air Power II 1 hr
AFR 3220 Air Force Leadership and Management I 3 hrs
AFR 3230 Air Force Evaluation and Management II 3 hrs
AFR 4201 Nat Scrtly Forces in Cont Am Soc I 3 hrs
AFR 4210 Nat Scrtly Forces in Cont An Soc 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 Sciences
African American Studies Program, CNH 201M**

<http://www.cas.ucf.edu/africanamericanstudies>

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 Fine Arts, History, English, Foreign Languages and Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

Credit hour Requirements 18 hours

Required Courses (6 hrs)
AFA 3104 The African American Experience 3 hrs
AMH 3571 Black American History I 3 hrs

Restricted Electives (12 hrs)
AFA 3955 Study Abroad in the Caribbean
AFH 3100 African History to 1870
AFH 3200 African History Since 1870
AMH 3572 Black American History II
AML 3614 Topics in African-American Literature
AML 3615 Harlem, Haiti, & Havana
ARH 3520 African Art
INR 3253 International Politics of Africa
FIL 3412 Black Cinema
LAH 3470 History of the Caribbean
LAS 4023 Afr Caribbean Experience
LIT 3192 Caribbean Literature
MUL 2016 Evolution of Jazz
POS 4622 Politics & Civil Rights
PUP 3314 Minorities in American Politics
SOP 3724 The Psychology of Racial Prejudice
SYD 3700 Race and Ethnic Minorities in the U.S.

Additional courses may be used only with the prior permission of the program Director.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

AGING STUDIES: Certificate

**College of Health and Public Affairs
School of Social Work, HPA 204**

School of Social Work, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to

Minors, Certificates and Study Abroad

all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. All students must contact the coordinator for planning their internship.

Credit Hour Requirements 15 hours

Required Course		3 hrs
GEY 3001	Gerontology: Interdisciplinary Overview	3 hrs
Required Internship: 120 hours	Select one	3 hrs
SOW 4510	Field Education	3 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 major and at least **one** course must be outside their college. Courses may be selected from any 5000 level courses in the graduate certificate program.

College of Health and Public Affairs.

HSA 4220	Long Term Care	3 hrs
HSA 3210	Long Term Administration	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
NUR 4286	Gerontologic Nursing	3 hrs
PLA 4932	Legal Issues of the Elderly	3 hrs
SOW 4645	Social Services for the Elderly	3 hrs

College of Arts & Sciences

DEP 3464	Psychology of Aging	3 hrs
SYP 4730	Sociology of Aging	3 hrs
GEY 3930/ SYP 3930	Women and Aging	3 hrs
LIT 3930	Literature of Aging	3 hrs
SYP 4734	Minority Aging	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) 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 credit cannot be used toward the minor.

AGING STUDIES: Minor

College of Health and Public Affairs

School of Social Work, HPA 204

School of Social Work, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers an eighteen-hour interdisciplinary program leading to a Minor in Aging Studies. The Minor is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. Also all students must contact the coordinator for planning their internship.

Credit Hour Requirements 18 hours

Required Courses		(3 hrs)
GEY 3001	Gerontology: Interdisciplinary Overview	3 hrs
Required Internship: 120 hours;		
Select one		
SSOW 4510	Field Education	3 hrs
HSA 4941	Internship	3 hrs
PSY 3951	Internship	3 hrs
SYP 4941	Internship	3 hrs
Electives		(12 hrs)

Students select **four** additional courses from the following: A maximum of **two** courses in their major and at least **two** courses must be outside their college. Courses may be selected from any 5000 level courses in the graduate certificate program.

College of Health and Public Affairs

HSA 4220	Long Term Care	3 hrs
HSA 3210	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

College of Arts and Sciences

DEP 3464	Psychology of Aging	3 hrs
SYP 4730	Sociology of Aging	3 hrs
GEY 3930/ SYP 3930	Women and Aging	3 hrs
LIT 3930	Literature of Aging	3 hrs

SYP 4734 Minority Aging 3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor
- Grades less than "C-" (1.75) are not accepted
- At least 12 hours used in the minor must be earned at UCF within the program
- No credit by exam (TSD, Military credit) may be used
- Independent Study credit may not be used toward the minor

AMERICAN HUMANICS: MINOR

American Humanics Minor with National Certificate

College of Health and Public Affairs

P.O. Box 163224

Orlando, Florida 32816-3224

Joan Nelson, MBA, MSW - Campus Director

Phone 497-823-0713; e-mail ahminor@mail.ucf.edu

The American Humanics Minor at the University of Central Florida will provide interdisciplinary classroom experience and experiential learning opportunities for students and community residents planning a career as a nonprofit professional working with America's youth and families. This minor will result in a National Certification in American Humanics Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements (19 credit hours)

Required Courses		(7 credit hours)
PAF XXXX	American Humanics Human Service Workshop (1 credit repeated four semesters)	4 hrs
PAF 4948	American Humanics Internship	3 hrs

* Internships within other programs may be accepted with prior approval of American Humanics advisor.

Generalist Emphasis

Restricted Electives (12 credit hours)

Choose at least one course from each of the following four groups.

Group I: General Nonprofit Management, Volunteerism

and Human Development		3 hrs
EDG 4941	Directed Field Experience	
PAD 4144	Nonprofit Organizations	
PAD 4148	Volunteer Management	
*SOW XXXX	Social Welfare	
*SOW 3104	Assessing I - Human Development	
DEP 2004	Developmental Psychology	
PPE 3003	Personality Theory	
DEP 3464	Psychology of Aging	

Group II: Planning & Evaluation and Human Resource Development 3 hrs

PAD 4144	Nonprofit Organizations	
PAD 4153	Strategic Planning & Implementation	
PAD 4325	Program Evaluation for the Public and Nonprofit Organizations	
*SOW 4431	Evaluating Social Work Practice & Service Programs	
PAD 4414	Human Resource Management	
MAN 3025	Management of Organizations	
MAN 3301	Human Resource Management	
MAN 4101	Human Relations in Management	
MAN 4129	Managerial Skills in Organizations	
MAN 4320	Human Resources, Recruitment & Selection	

Group III: Communication & Marketing 3 hrs

PAD 4144	Nonprofit Organizations	
*SOW 3352	Interpersonal skills in Social Welfare Practice	
COM 3110	Business & Professional Communications	
SPC 3445	Leadership Through Oral Communication	
GEB 3031	The Cornerstone Course	
MAR 3023	Marketing	
MAR 3641	Marketing Intelligence	
MAR 4803	Marketing Management	

Group IV: Nonprofit Accounting & Financial Management and Fund Raising Principles & Practices. 3 hrs

PAD 4144	Nonprofit Organizations	
ACG 2021	Financial Accounting	
ACG 2071	Managerial Accounting	
PAD 5850	Grant and Contract Management	
PAD 4204	Fiscal Management	
PAD 4131	Public Sector Project Management	
PAD 4147	Resource Development in the Nonprofit Sector	

Minors, Certificates and Study Abroad

Public Affairs Emphasis

Restricted Electives Choose at least two from the following (6 credit hours)

- PAD 4131 Public Sector Project Management
- PAD 4144 Non-Profit Organizations
- PAD 4147 Resource Development in the Nonprofit Sector
- PAD 4204 Fiscal Management
- PAD 4325 Program Evaluation for the Public and Non-Profit Organizations

Restricted Electives Choose at least two from the following (6 credit hours)

- PAD 4148 Volunteer Management
- PAD 4153 Planning and Improvement for Public Organizations
- PAD 4223 Public Budgeting
- PAD 4253 Community and Economic Development

Other Requirements

- Enrollment in American Humanics Certificate Program. through AH program office.
- Attendance at one national American Humanics Management Institute (additional fees)
- Membership in UCF American Humanics Student Association
* open only to SOW majors

AMERICAN SIGN LANGUAGE (ASL): Certificate

College of Health and Public Affairs
Department of Communicative Disorders,
HPA-2, Suite 101

<http://www.cohpa.ucf.edu/comdis>

Amy Mulcahy, 407-823-4798
e-mail: amulcahy@mail.ucf.edu

Since 1995 the demand for American Sign Language (ASL) classes has increased 165% as individuals and professionals have become sensitive to the need to communicate directly with the deaf and hard of hearing community. 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 undergraduate students majoring in communicative 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 who wish to enhance their ability to communicate with the deaf community and to enhance their employment potential.

Credit Hour Requirements **14 hrs**

Required Courses

SPA 4612	Introduction to American Sign Language	3 hrs
SPA 4613	Intermediate American Sign Language	3 hrs
SPA 4614C	American Sign Language III	4 hrs
SPA 4615	American Sign Language IV	4 hrs

Other Requirements

- A minimum grade of "C-" (1.75) is required in each course.
- Grades less than "C-" (1.75) are not accepted.
- At least 9 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

AMERICAN STUDIES: Minor

College of Arts and Sciences
Liberal Studies Office, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team

Credit Hour Requirements **21 hours**

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
LIT 3354	Ethnic Literature in America

Social Sciences

POS 3413	The American Presidency
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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 4311 American Culture I
- AMH 4313 American Culture II

Restricted Electives (12 hrs)

Courses chosen from courses approved by the Liberal Studies advisors. 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 Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://cas.ucf.edu/soc_anthro/firstpage.html
anthropology@ucf.edu

Jay Corzine, 407-823-2227

The Anthropology minor develops a holistic understanding of the past and present human condition. Four different concentrations are delimited within the Anthropology minor.

Credit Hour Requirements **18 hours**
Required Courses **(6 hrs)**

Two of the following four 2000 level courses must be included in the minor:

ANT 2000	General Anthropology	3 hrs
ANT 2100	Archaeology & Rise of Human Culture	3 hrs
ANT 2410	Cultural Anthropology	3 hrs
ANT 2511	The Human Species	3 hrs

Restricted Electives (12 hrs)

Four other Anthropology courses must be taken within one of the following defined concentrations. Substitutions must be approved by the Anthropology Coordinator.

Concentration in General Anthropology (12 hrs)

All four 2000 level courses plus two upper level (3000-5000) courses in Anthropology

Concentration in Archaeology (12 hrs)

ANT 2000 and ANT 2100 must be taken. The other four courses must be selected from:

ANT 3158	Florida Archaeology
ANT 3115	Archaeological Method and Theory
ANT 3142	Old World Prehistory
ANT 3145	Archaeology of Complex Societies
ANT 3163	Mesoamerican Archaeology
ANT 3168	Maya Archaeology (or ANG 6168)
ANT 3184	Mortuary Archaeology
ANT 4153	North American Archaeology
ANT 4180C	Seminar in Laboratory Analysis (or three 1 hr labs)

ANT 4824	Advanced Archaeological Field Work
ANG 5166	Problems of Maya Archaeology
ANG 5167	Maya Hieroglyphs
ANG 5228	Maya Iconography

Concentration in Physical Anthropology (12 hrs)

Take four of the following courses:

ANT 3184	Mortuary Archaeology
ANT 3541	Biobehavioral Anthropology
ANT 3550	Primatology
ANT 4521C	Forensic Anthropology
ANT 4462	Medical Anthropology
ANT 4525C	Human Osteology
ANT 4586	Human Origins

Concentration in Cultural Anthropology (12 hrs)

ANT 2000 and ANT 2410 must be taken. The other four courses must be selected from:

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 XXXX	Ethnology of North Amer Indians

Minors, Certificates and Study Abroad

ANT 3313	Indians of N Amer High Plains
ANT 3314	Indians of the Northeast Woodlands
ANT 3318	Indians of the Northwest Coast
ANT 3164	The Incas
ANT 3332	Peoples and Culture of Latin America
ANT 3701	Applied Anthropology
ANT 3363	Anthropology of Japan
ANT 3640	Language and Culture
ANT 3340	Caribbean Cultures
ANT 3319	The Anthropology of Diaspora
ANT 4034	History of Anthropological Thought
ANT 4308	Gender Issues in Latin America
ANG 5167	Maya Hieroglyphs
ANG 5228	Maya Iconography
ANG 6324	Contemporary Maya

Other Requirements

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department
- No credit by exam (TSD, Military credit) may be used.

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor College of Arts and Sciences

Department of Sociology & Anthropology, PH 403

http://www.cas.ucf.edu/soc_anthro/firstpage.html

anthropology@ucf.edu

Jay Corzine, 407-823-2227

This minor develops a more sophisticated understanding of the recent dilemmas of Hispanic, Native American, and Pacific Rim cultures, sex, and gender controversies in America and other 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 hours**
Required Course (3 hrs)

One of the following two 2000 level courses must be included in the minor:

ANT 2000	General Anthropology
ANT 2410	Cultural Anthropology

Restricted Electives (15 hrs)

Five other Anthropology courses must be taken from the following offerings.

Substitutions require the consent of the Anthropology Coordinator.

ANT 3164	The 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 XXXX	Ethnology of North Amer Indians
ANT 3332	People and Cultures of Latin Amer
ANT 3640	Language and Culture
ANT 3340	Caribbean Cultures
ANT 3319	The Anthropology of Diaspora
ANT 4308	Gender Issues in Latin America
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 Sciences

Art Department, VAB 117

<http://reach.ucf.edu/~art>

art@ucf.edu

J. Chavda, 407-823-2676

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	Early 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

Restricted Elective: (3 hrs)

ARH 4350	Baroque Art
ARH 4892	Women in Art
ARH 4458	Women and Art in the 20th Century America
ARH 5478	Contemporary Women Artists
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 six of the required hours must be regularly scheduled 3000- 4000 level courses in an 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.

ART - STUDIO: Minor

College of Arts and Sciences

Art Department, VAB 117

<http://reach.ucf.edu/~art>

art@ucf.edu

J. Chavda, 407-823-2676

Credit Hour Requirements **24 hours**
Required Courses (18 hrs)

ARH 2050	The History of Art I	3 hrs
ARH 2051	The History of Art II	3 hrs
ART 2201C	Design Fundamentals I	3 hrs
ART 2203C	Design Fundamentals II	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 an 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 Sciences

Department of History, CNH 551

<http://pegasus.cc.ucf.edu/~history>

history@ucf.edu

Hong Zhang, 407-823-2224

An interdisciplinary minor in which seven UCF departments; Anthropology, Art, Economics, Foreign Languages and Literatures, History, Philosophy, and Political Science 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 **24 hours**
Required Course (3 hrs)

HUM 3401	Asian Humanities
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Restricted Electives (21 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).

Minors, Certificates and Study Abroad

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.
- 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 Arts and Sciences

Department of Physics, MAP 310

physics@ucf.edu

407-823-2325

Credit Hour Requirements

Required Course		20 hours (18 hrs)
PHY 2048	Physics for Engineers & Scientists I	3 hrs
AST 2002	Introductory Astronomy	3 hrs
AST 3722C	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 <i>and</i>	1 hr
AST 2002L	Introductory Astronomy	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.

BEHAVIORAL FORENSICS: Certificate

College of Arts and Sciences

Psychology Department, PH 302

<http://pegasus.cc.ucf.edu/~psych>

psychology@ucf.edu

Jack McGuire, 407-823-2216

Undergraduate Advising: T. Hernandez, 407-823-2547

Psychology Advising Center, PH 305G, 407-823-2219

Credit Hour Requirements

Prerequisite Courses		20 hours (6 hrs) GEP
PSY 2012	General Psychology <i>or</i>	
SYG 2000	General Sociology	
PPE 3003	Personality Theories	3 hrs
SYP 3510	Soci of Deviant Behavior	3 hrs
Required Courses		(12 hrs)
PSY 4XXX	Forensic Psychology	3 hrs
PSY 3XXX	Legal Aspects of Psych	3 hrs
SYP 3520	Criminology	3 hrs
SYP 3540	Sociology of Law	3 hrs
Restricted Electives		(9 hrs)

Note: It is the student's responsibility to meet all prerequisites for any course selected

From Psychology, select one of the following:

CLP 3143	Abnormal Psychology
CLP 3302	Clinical Psychology
CLP 4134	Childhood Psychopathology
PCO 4203	Interviewing and Counseling

From Sociology, select one of the following:

SYP 3511	Sociology of Murder
SYP 3530	Juvenile Delinquency
SYP 4521	Criminal Victimization in Society
SYP 4514	Sociology of Violence
SYP 4536	Gangs and Society
SYP 3XXX	Soc Perspectives on Domestic Violence

From Criminal Justice, select one of the following:

CCJ 3014	Crime in America
CCJ 3024	Criminal Justice System
CCJ 4670	Women and Crime
CCJ 4630	Serial Murder & CJ
CCJ 4616	Criminal Profiling in CJ

CCJ 3667	Victims and the CJ System
CCJ 4681	Domestic Violence & the Justice Syst
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.

BIOLOGY: Minor

College of Arts and Sciences

Department of Biology, BL 210

<http://pegasus.cc.ucf.edu/~biology>

biology@ucf.edu

Walter Taylor, 407-823-2141

Credit Hour Requirements

Required Courses		32 hours (32 hrs)
BSC 2010C	General Biology	4 hrs
BSC 2011C	Biological Diversity	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 3034	Principles of Ecology	3 hrs
PCB 3063	Genetics	3 hrs
PCB 4683	Population Biology and Evolution	5 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 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.
- A minor in Biology will not be awarded to students who have, or expect to earn, any other Life Science degree.

BUSINESS: Minor for Non-Business Majors

College of Business Administration

Department of Economics, BA 229F

B. Moore, 407-823-5256, bmoore@bus.ucf.edu

Credit Hour Requirements

Required Accounting Course(s)		24 hours (6 hrs)
ACG 2021	Principles of Financial Accounting	
<i>and</i>		
ACG 2071	Principles of Managerial Accounting	
Required Courses		(15 hrs)
ECO 2013	Macroeconomics	
ECO 2023	Microeconomics	
FIN 3403	Business Finance	
MAN 3025	Management of Organizations	
MAR 3023	Marketing	
Restricted Elective		(3 hrs)

A 3000 level business core course

(GEB 3004 may not be used)

Other Requirements

- A grade of "C" (2.0) is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours of upper division credit 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.

Minors, Certificates and Study Abroad

CHEMISTRY: Minor

College of Arts and Sciences

Department of Chemistry, CH 117

<http://www.cas.ucf.edu/chemistry>

chemistry@ucf.edu

Brooks Madsen, 407-823-2246

Credit Hour Requirements

28 hours
(21 hrs)

Required Courses

CHM 2045C	Chemistry Fundamentals I	4 hrs
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2046L	Chemistry Fundamentals Laboratory	1 hr
CHM 2210	Organic Chemistry I	3 hrs
CHM 2211	Organic Chemistry II	3 hrs
CHM 2211L	Organic Laboratory Techniques I	2 hrs
CHM 3120C	Analytical Chemistry	5 hrs

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 4130C	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 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.

CHILDREN'S SERVICES: Certificate

College of Health and Public Affairs

School of Social Work, HPA 204

Mary Van Hook, 407-823-2114

The Children's Services Certificate is designed to prepare Social Work students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of 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.

Credit Hour Requirements

18 hours

Required Courses

SOW 3352	Practice II: Interpersonal Skills	3 hrs
SOW 4654	Children's Services	3 hrs
SOW 4XXX	Child Abuse: Treatment & Prevention	3 hrs
SOW 4510	Field Education*	9 hrs

* Placement with the Department of Children and Families-working with child welfare or placement in an agency that serves children.

NOTE: Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

COACHING: Minor

College of Education

Department of Teaching and Learning Principles

ED building, second floor; 407-823-5791

Patricia Higginbotham, 407-823-2050

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 for all persons certified to teach, which includes nine hours (Human Injuries, Coaching Theory, and a Coaching Specialization course). 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.

Credit Hour Requirements

18 hours
(18 hrs)

Required Courses

*PET 2622C	Human Injuries	3 hrs
PET 3765	Coaching Theory	3 hrs
PET 3493	Sports Ethics	3 hrs
PET 4215	Motivational Aspects of Athletic Performance	3 hrs
PET 4763	Coaching Methods and Principles	3 hrs
Select one course from the following:		
PEO 2624	Coaching Football	3 hrs
PEO 3644	Coaching Basketball	3 hrs
PEO 3324	Coaching Volleyball	3 hrs

* 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.

COMMUNICATIVE DISORDERS: Minor

College of Health and Public Affairs

Department of Communicative Disorders

HPA2 Suite 101

Amy Mulcahy, 407-823-4798

E-mail: amulcahy@mail.ucf.edu

Credit Hour Requirements

22 hours

Required Courses

SPA 3002	Intro to Communicative Disorders	3 hrs
SPA 3112	Basic Phonetics	3 hrs
SPA 3112L	Basic Phonetics Lab	1 hr
LIN 3716	Language Development: Birth Through 8yrs	3 hrs
SPA 3101	Physiological Bases of Speech/Hearing	3 hrs
SPA 4032	Audiology	3 hrs
SPA 4400	Language Disorders Across the Lifespan	3 hrs
SPA 4201	Articulation/Phonological Disorders	3 hrs

Other Requirements

- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 19 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

Licensed Speech Language and Audiology Assistant

This state license may be obtained by completing the minor plus one additional course as recommended by the academic advisor.

COMMUNITY ARTS—PAVE: Minor

College of Arts and Sciences

Department of Art, VAB 117

<http://reach.ucf.edu/~art>

art@ucf.edu

Kevin Haran, 407-823-5203

Minor Requirements

Partners in Art in Visual Education (PAVE)

A minor in Community Arts—PAVE is offered for the student who is

majoring in Art, Music, Theatre, or English (with a Creative Writing focus). Students interested in the minor should contact the department chair.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used toward the minor.

COMPUTER INFORMATION TECHNOLOGY: Minor, Certificate

**College of Engineering and Computer Science
School of Electrical Engineering and Computer Science,
CSB 201**

E-mail: computerscience@ucf.edu

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

Mark Llewellyn, 407-823-2341

Credit Hour Requirements

**36 hours
(36 hrs)**

Required Courses

COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	3 hrs
CDA 3103C	Computer Organization	3 hrs
MHF 2104	Foundations of Discrete Math	3 hrs
COP 3223	Intro to Programming with C	3 hrs
COP 3330	Object Oriented Programming	3 hrs
CGS 2545C	Database Concepts	3 hrs
CGS 3269	Comp Arch Concepts	3 hrs
CGS 3285	Comp Networks Concepts	3 hrs
CGS 3763	Operating System Concepts	3 hrs
COP 3346	Unix	3 hrs

Additional three credits chosen from any upper level course offered by the School of Electrical Engineering and Computer Science.

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 18 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 certificate.

COMPUTER SCIENCE: Minor

**College of Engineering and Computer Science
School of Electrical Engineering and Computer Science,
CSB 201**

E-mail: computerscience@ucf.edu

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

Dr. Mark Llewellyn, 407-823-2341

Credit Hour Requirements

**18 hours
(18 hrs)**

Required Courses

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	3 hrs
COT 3100C	Introduction to Discrete Structure	3 hrs
CDA 3103C	Comp. Organization	3 hrs

Other Requirements

- 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.

**COMPUTER SCIENCE, APPLIED: Minor, Certificate
College of Engineering and Computer Science
School of Electrical Engineering and Computer Science,
CSB 201**

E-mail: computerscience@ucf.edu

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

407-823-2341

Credit Hour Requirements

**18-19 hours
(6-7 hrs)**

Required Courses

Select one of the following tracks:

Track 1:

CGS 1060C or COP 2100) and
COP 2100

Track 2:

COP 3223 (Intro to Programming with C)
COP 3502C Computer Science I

Restricted Electives

(6 hrs)

Select from the following:

CGS 2515	Spreadsheet Concepts
CGS 2545C	Database Concepts
CGS 2585C	Desktop/Internet Publishing
CGS 3175	Internet Applications
CGS 3269	Computer Architecture Concepts
CGS 3285	Computer Networks Concepts
CGS 3763	Operating Systems Concepts

Computer Science Electives

(6 hrs)

Any upper division courses offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internships, and those courses listed under Required Courses).

Other Requirements

- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within the Computer Science program.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.

**CRIME ANALYSIS AND CRIME MAPPING: Certificate
College of Health and Public Affairs**

**Department of Criminal Justice and Legal Studies,
HPA 311**

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.

Credit Hour Requirements

15 hours

Required Courses (in sequence)

(9 hrs)

CJE 3662	Data Management Systems for Crime Analysis	3 hrs
CJE 4663	Crime Mapping and Analysis in Criminal Justice	3 hrs
CCJ 4076	Advanced Crime Mapping and Analysis in Criminal Justice	3 hrs

Restricted Upper Division Electives

(6 hrs)

Select two of the following:

CCJ 3451	Justice Systems Technology	3 hrs
CJE 3444	Crime Prevention	3 hrs
CJE 4654	Crime and Place	3 hrs
CCJ 3450	Criminal Justice Manager	3 hrs
CCJ 4454	Policy Development in Law Enforcement	3 hrs
CCJ 4459	Justice Agency Operations	3 hrs

Other Requirements

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

Minors, Certificates and Study Abroad

CRIMINAL JUSTICE: Minor

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies,
HPA 311

David Fabianic, 407-823-2603

E-mail: cjadvice@mail.ucf.edu

Credit Hour Requirements

Required Courses

CCJ 3024	Criminal Justice System	3 hrs
CCJ 3014	Crime in America	3 hrs

Restricted Electives

Two of the following:

CJL 3510	Prosecution and Adjudication
CJC 3010	The Corrections and Penology
CJE 4014	Police and Society

Six semester hours of Criminal Justice Courses
(selected with the aid of an advisor).

Other Requirements

- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

CRIMINAL PROFILING: Certificate

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies,
HPA 311

David Fabianic, 407-823-5940

E-mail: fabianic@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.

Credit Hour Requirements

Required Courses

CLP 3143	Abnormal Psychology	3 hrs
CJE 4630	Serial Murder and the Criminal Justice System	3 hrs
CCJ 4690	Sex Offenders and the Criminal Justice System	3 hrs
CCJ 4616	Criminal Profiling in Criminal Justice	3 hrs

Restricted Upper Division Electives

Select one of the following:

CCJ 4100	Criminal Investigation	3 hrs
CCJ 4661	Terrorism	3 hrs
CCJ 4932	Interviews and Interrogations	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 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 certificate.

CULTURAL TOURISM: Certificate

College of Arts and Sciences

Office of Liberal and Interdisciplinary Studies

<http://www.cas.ucf.edu/olis/culturaltourism/>

ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

This certificate harnesses the naturally related fields of tourism to cultural studies, focusing on the specific cultural and business conditions in Central Florida as well as tourism. The certificate complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The

cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

Credit Hour Requirements

Required Courses

HFT 3540	Guest Service Management	3 hrs
HFT 3700	Tourism Management	3 hrs
HFT 4735	Tourism Geography	3 hrs
ANT 3438	Anthropology of Tourism	3 hrs

Choose two classes from one of the following areas

African American Heritage area (choose two classes)

AFA 3104	The African American Experience
AFA 4105	Documenting African American Heritage and Life
SYD 3700	Race and Ethnic Minorities in the United States

Anthropology area (choose two classes)

ANT 2100	Archaeology and the Rise of Human Culture
ANT 3212	Peoples of the World
ANT 2410	Cultural Anthropology
ANT 3115	Archaeological Method and Theory
ANT 3930	Applied Anthropology

Environmental Tourism area (choose two classes)

BOT 3152C	Local Flora
PCB 3442	Florida Aquatic Ecology
INR 4351	International Environmental Law
PUP 3203	Environmental Politics
PUP 4204	Sustainability
SYD 4510	Environmental Sociology

Latin American area (choose two classes)

ANT 3163	Meso American Archaeology
ANT 3168	Maya Archaeology
ANT 3332	Peoples and Cultures of Latin America
ANT 3340	Caribbean Archaeology
ARH 4655	Meso American Art
CPO 4303	Comparative Latin American Politics
LAH 3400	History of Mexico and Central America
LAH 3470	History of the Caribbean
LAH 3130	Latin American History I
LAH 3200	Latin American History II

Other Requirements

- A grade of "C" or above (2.0) is required in each course used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit can not be used toward the certificate without prior permission of the program director.

DIGITAL MEDIA: Minor

College of Arts and Sciences

Digital Media Program, VAB 205

<http://www.creat.cas.ucf.edu>

moshell@cs.ucf.edu

M. Moshell, 407-823-6100

Credit Hour Requirements

Required Courses:

IDS 2680	Introduction to Digital Media
ART 2600C	Introduction to Computer Art
IDS 4688L	Internet Interaction
COP 2500C	Concepts in Computer Science

Restricted Elective Courses

Select two courses:

MUS 3XXX	Music Technology
ENC 4415	Digital Rhetorics and the Modern Dialectic
IDS 3701C	Internet Software Design
ART 2201C	Design Fundamentals I
IDS 3782C	Assembling Digital Media
FIL 3625	Interactive Entertainment
IDS 4688C	Media for e-Commerce I
IDS 4XXX	Interactive Devices
IDS 4681	Modeling for Realtime Graphics
IDS 3687C	Digital Imagery
FIL 3624	Converging Media
IDS 4705	Autonomous Media
IDS 4687C	Game Engines
IDS 4686C	Game Design

Other Requirements

- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- 15 hours used in the minor must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.

- Internship, cooperative education, or Independent Study credit can be used in the minor only with prior written permission.

DIGITAL MEDIA: Certificate

College of Arts and Sciences

CREAT Digital Media Program, VAB 205

<http://www.creat.cas.ucf.edu>

digitalmedia@creat.cas.ucf.edu

Program Director: J. Michael Moshell, 407-823-6100

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

Entrance Requirement

- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student's creativity and technical accomplishment in some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

Credit Hour Requirements:

12 hours

Required Course:

IDS 3683 Digital Media Production I 3 hrs

Restricted Elective:

Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program Director prior to being taken) 3 hrs

Senior Project:

IDS 4682L Digital Media Project (may be repeated for credit) 6 hrs

Other Requirements

- A minimum grade of "C" (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used in the certificate only with prior written permission.

EARLY CHILDHOOD EDUCATION: Minor

College of Education

Department of Child, Family, Community Sciences

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

Dr. Wilfred Wienke, 407-823-2402; wwienke@mail.ucf.edu

Program Coordinator: Lynn Hartle, 407-823-4163; lhartle@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.

Credit Hour Requirements

21 hours

Required Courses

RED 3310	Emergent Literacy	3 hrs
EEC 3268	Play Development	3 hrs
EDF 3307	Learning Environments & Guidance	3 hrs
EEX 3450	Young Children with Special Needs	3 hrs
EEX 4751	Parent Involvement	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs

Restricted Electives

(3 hrs)

EDF 3740	Foundations of ECE	3 hrs
EDF 3120	Observing Child Growth & Development	3 hrs
LAE 3414	Children's Literature	3 hrs
RED 3012	Foundations of Reading	3 hrs
EEC 4731	Health Safety & Nutrition	3 hrs
RED 4311	Development of Literacy	3 hrs
MAE 4300	Exploring Mathematics	3 hrs
SCE 4023	Teaching Science & Technology	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.

e-BUSINESS: Minor

College of Business Administration

Office of Student Support, BA 240, 407-823-2184

Credit Hour Requirements

18 hours
(9 hrs)

Required Courses

*MAN 4XXX	eStrategy
*ISM 4XXX	eTechnology
*MAR 3880	eMarketing

Restricted Electives

(9 hrs)

Select three courses

*MAN 4802	Entrepreneurship
*ISM 4932: ST	E-Commerce
*ISM/MAR 4XXX	Database Marketing Research
*MAR 4724	Strategic Foundations in Global E-Business
*MAR 5941	Small Business Consulting (must be E-business related)
**ISM 4941	Internship in MIS (must be E-business related)
**MAN 4941	Management Internship (must be E-business related)
**MAR 4941	Marketing Internship (must be E-business related)

* Requires additional prerequisites

** Note: Only one internship will count toward the minor degree. Internships may also require additional prerequisites.

Other Requirements

- A minimum grade of 2.0 or better is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least nine hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Directed Research credit cannot be used toward the minor.

Note: The College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

ECONOMICS: Minor

(for both Business Majors and non-Business Majors)

College of Business Administration

Department of Economics, BA 318

R. Pennington, 407-823-2640, rpennington@bus.ucf.edu

Credit Hour Requirements

18 hours

Required Courses

(9 hrs)

ECO 2013	Macroeconomics	3 hrs
ECO 2023	Microeconomics	3 hrs

Select one of the following two courses:

ECO 3101	Intermediate Price Theory	3 hrs
ECO 3203	Aggregate Econ Conditions Anal	3 hrs

Upper Division Restricted Electives

(9 hrs)

Select from any ECO, ECP or ECS courses at the 3000-4000 level, excluding ECO 3401.

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.
- 3 hours of Internship or Independent Study credit can be used toward the minor with prior approval of the economic advisor.

Minors, Certificates and Study Abroad

EMERGENCY MANAGEMENT: Minor

College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. K. Tom Liou, 407-823-2604; fax: 407-823-5651

Credit Hour Requirements

Core Courses		18 hours (18 hrs)
PAD 4110	Intergovernmental Administration	3 hrs
PAD 4392	Managing Public Emergencie	3 hrs
PAD 4393	Emergency Management and Disaster Planning	3 hrs
PAD 4712	Information System for Public Managers and Planners	3 hrs
PAD 4XXX	Disaster Response and Recovery	3 hrs
PAD 4XXX	Hazard Mitigation	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.

ENGLISH - CREATIVE WRITING: Minor

College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements

Required Course		21 hours (3 hrs)
CRW 3013	Creative Writing for English Majors	3 hrs
Restricted Elective Courses (6 hrs)		
Select one course after completing CRW 3013		
CRW 3120	Fiction Writing Workshop	
CRW 3310	Poetry Writing Workshop	
CRW 3211	Creative Nonfiction Writing	
Select one course		
CRW 4122	Advanced Fiction Writing Workshop (PR: CRW 3120)	
CRW 4320	Advanced Poetry Writing Workshop (PR: CRW 3310)	
CRW 4224	Advanced Nonfiction Workshop (PR: CRW 3211)	
Restricted Upper Division Electives (12 hrs)		
CRW 3311	Structure of Verse	
CRW 3410	Writing Scripts	
CRW 4114	History of Prose Style	
CRW 5932	Teaching Creative Writing	
and any of the above courses not already used		

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LINGUISTICS: Minor

College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements

Required Courses		18 hours (9 hrs)
LIN 3010	Introduction to Linguistics	3 hrs
LIN 4100	History of the English Language	3 hrs
LIN 4680	Modern English Grammar	3 hrs
Restricted Upper Division Electives (9 hrs)		
LIN 4660	Linguistics and Literature	
LIN 4801	Language and Meaning	
LIN 5137	Linguistics	
ANT 3640	Language and Culture	
PHI 4400	Philosophy of Science	
or any course approved by the Linguistics Committee		

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LITERATURE: Minor

College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements

Required Course		21 hours (3 hrs)
ENG 3014	Theories and Techniques of Lit Study (PR for all 4000 level AML, ENG, ENL, and LIT courses)	
Restricted Upper Division Electives (18 hrs)		
English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor		

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department, and must be regularly scheduled, upper level courses.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - TECHNICAL WRITING & EDITING: Minor

College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements

Required courses		21 hours
ENC 3211	Theory & Practice of Tech Writing	3 hrs
ENC 3311	Advanced Expository Writing	3 hrs
ENC 4215	Techniques of Technical Publications	3 hrs
ENC 4218	Visual Elements in Documentation	3 hrs
ENC 4293	Technical Documentation I	3 hrs
ENC 4294	Technical Documentation II	3 hrs
ENC 4295	Technical Documentation III	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 Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements

Restricted Elective Courses		18 hours (18 hrs)
Any 3000 or 4000 level ENC or CRW classes for which the student has met the pre-requisites, including:		
CRW 3120	Fiction Writing Workshop	
CRW 3310	Poetry Writing Workshop	
CRW 3013	Creative Writing for English Majors	
CRW 3211	Creative Nonfiction Writing	
CRW 3311	Structure of Verse	
CRW 4122	Advanced Fiction Writing Workshop	
CRW 4123	Science Fiction Writing	
CRW 4224	Advanced Nonfiction Workshop	
CRW 4320	Advanced Poetry Writing Workshop	
ENC 3211	Theory and Practice of Technical Writing	
ENC 3241	Writing for the Technical Professional	
ENC 3250	Professional Writing	

Minors, Certificates and Study Abroad

ENC 3310	Magazine Writing I
ENC 3311	Advanced Expository Writing
ENC 3942	Journal Writing Practicum

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.

ENVIRONMENTAL STUDIES: Minor

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

The Environmental Studies minor degree is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

Credit Hour Requirements

21 hours

Note: It is the student's responsibility to ensure that any prerequisite courses have been completed before enrolling in any of these courses requiring a prerequisite.

Required Course

IDS 3150	Foundations of Environmental Studies	3 hrs
Science & Environmental Electives		(9 hrs)

Natural Sciences

BSC 1050&L	Biology and Environment + lab
BSC 2011C	Biological Diversity
BOT 3152C	Local Flora
BOT 4156C	Florida Wildflowers
BOT 3800	Ethnobotany
BOT 4303C	Plant Kingdom
BOT 4696C	Conservation and Management of Native Plants
BOT 5623C	Plant Geography and Ecology
BOT 4713C	Plant Taxonomy
BSC 4312C	Marine Biology
PCB 3034&L	Principles of Ecology and Lab
PCB 3442	Florida Aquatic Ecology
PCB 4302C	Physiochemical Limnology
PCB 4303C	Biological Limnology
PCB 4683	Population Biology and Evolution
PCB 5045C	Conservation Biology
PCB 5326C	Ecosystems of Florida
PCB 5435C	Marine Ecology of Florida
PCB 5485	Models in Ecology
PCB 5328C	Landscape Ecology
CHM 3120C	Analytical Chemistry
CHM 4615	Environmental Chemistry
HSC 4500	Epidemiology

Technology & Society

EGN 4813	Science in History
EGN 4814	Technology in History
EGN 4824	Energy and Society
EGN 4825	Environment and Society

Environmental Engineering

ENV 3001	Introduction to Environmental Engineering
ENV 4341	Solid Waste Management
ENV 4432	Potable Water Treatment
ENV 5334	Characterization of Hazardous Waste Sites

Social & Humanities Electives

(9 hrs)

Environment & Society

ECO 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 5336	Introduction to Urban Planning
PAD 5338	Land Use and Planning Law
PLA 4631	Land Use and Environmental Law

Geography

CEG 3301	Engineering and Environmental Geology
GEO 2370	Resources Geography
GEO 4131C	Remote Sensing of the Environment

Philosophy

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
PHM 5035	Environmental Philosophy

Sociology

SOP 3004	Social Psychology
SCE 4023	Teaching Science and Technology to Children
ANT XXXX	Ethnology of North American Indians

Writing, Journalism Courses

JOU 4181	Public Affairs Reporting
PGY 3610C	Photojournalism I
LIT 4433	Survey of Technical and Scientific Literature

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 Liberal Studies advisors to be used toward the minor.
- Co op credit cannot be used in this minor.

EXCEPTIONAL EDUCATION: Minor

College of Education

Department of Child, Family, and Community Sciences

ED building, second floor, 407-823-2401

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

Chair: Wilfred Wienke, 407-823-2401

E-mail: wwienke@mail.ucf.edu

Program Coordinator: Lee Cross, 407-823-5477

E-mail: lcross@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor will strengthen the marketability of the student's major program. This minor is available for students in the 2001 catalog and beyond.

Credit Hour Requirements

21 hours

Required Courses

(18 hrs)

RED 3012	Foundation of Reading	3 hrs
EEX 4003	Teaching Exceptional Students	3 hrs
EEX 4601	Introduction to Behavior Management	3 hrs
EEX 4753	Parent/Professional Collaboration	3 hrs
EDF 4603	Analysis of Critical Issues	3 hrs
EEX 3243	Techniques for Exceptional Adolescents/ Adults or	
EEX 3241	Methods for Academic Skills for Excep Students	3 hrs

Restricted Electives

(3 hrs)

EEX 4054	App/Theory Special Needs Students Indep Study	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs

Other Requirements

- Completion of all parts of the CLAST with appropriate passing scores (no alternatives), 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 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 to the College of Education.

Minors, Certificates and Study Abroad

FILM - CINEMA STUDIES: Minor

College of Arts and Sciences

Film Department, COM 121

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

film@ucf.edu

Sterling Van Wagenen, 407-823-3456

Entrance Requirement

- Completion of a Minor Declaration and Minor Application

Credit Hour Requirements 18 hours

Required Courses (12 hrs)

FIL 1007	Foundations of Story or	3 hrs
FIL 1001	Cinema Survey	
FIL 2400	History of Motion Pictures	3 hrs
FIL 3006	Art of the Cinema	3 hrs
FIL 2201	Foundations of Production	3 hrs

Restricted Electives (Choose Two) (6 hrs)

FIL 3309	Women in Film
FIL 3520	Italian Film
FIL 3521	French Film
FIL 3XXX	Black Images in Film
FIL 3522	German Film
FIL 3412	Black Cinema

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.

FITNESS TRAINING: Minor

College of Education

Department of Teaching and Learning Principles

ED building, second floor

Patricia Higginbotham, 407-823-2050

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.

Credit Hour Requirements *23 hours

Required Courses (22 hrs)

*PEM 2171	Aerobic Dancing	3 hrs
*PET 2622C	Human Injuries	3 hrs
PET 4312	Biomechanics	3 hrs
PET 4351	Applied Exercise and Human Physiology	3 hrs
PET 4550	Fitness Assessments and Exercises	3 hrs
PET 4083C	Practical Fitness Training	4 hrs
*ZOO 3736C	Exercise Physiology Anatomy	4 hrs

* If the student has completed a Human Anatomy course with a laboratory requirement at another school, it can be substituted for ZOO 3736C. This is also true for the Human Injuries course, PET 2622C and the PEM 2171 Aerobic Dancing course. Both of these courses are often completed at a community college.

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 Sciences

Foreign Languages and Literatures, CNH 523

<http://pegasus.cc.ucf.edu/~forlang>

foreignlanguage@ucf.edu

C. E. Stebbins, 407-823-2472

Credit Hour Requirements 18 hours

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 Sciences

Foreign Languages and Literatures, CNH 523

<http://pegasus.cc.ucf.edu/~forlang>

foreignlanguage@ucf.edu

C. E. Stebbins, 407-823-2472

Credit Hour Requirements 18 hours

Restricted Electives

- Select six upper division courses in German, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

HEALTH INFORMATION MANAGEMENT: Minor

College of Health and Public Affairs

Department of Health Professions, HPA2 210

Thomas J. Falen, 407-823-2369

Email: tfalen@mail.ucf.edu

Credit Hour Requirements 20 hours

Required Courses (20 hrs)

HIM 3006	Foundations of Health Information Management	3 hrs
HIM 4506	Quality Management	3 hrs
HIM 4656C	Health Information Management Systems	3 hrs
HSC 3531	Medical Terminology	3 hrs
HIM 4226C	Coding Practice I	5 hrs
HIM 4256C	Coding Practice II	3 hrs

Other Requirements

- A minimum overall GPA of 2.5 is required. A minimum grade of "C" (2.0) is required in each course for the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by examination (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental approval.

HEALTH SCIENCES: Minor

College of Health and Public Affairs

Department of Health Professions, HPA2 212

L. Timothy Worrell, 407-823-2214

E-mail: worrell@mail.ucf.edu

Credit Hour Requirements 18 hours

Required Courses		(9 hrs)
HSA 3122	U.S. Health Care Systems	3 hrs
HUN 2002	Modern Concepts of Nutrition	3 hrs
HSC 3110C	Medical Self Assessment	3 hrs

Restricted Upper Division Electives (9 hrs)
 9 additional hours of upper division courses in the Health Professions department.

Other Requirements

- Majors may not count courses presently required in a department program.
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of "C" (2.0) is required in all Health Professions courses.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

HEALTH SERVICES ADMINISTRATION: Minor

College of Health and Public Affairs
Department of Health Professions, HPA2 210
 Thomas Falen, 407-823-2369
 Email: tfalen@mail.ucf.edu

Credit Hour Requirements **18 hours**

Required Courses		(15 hrs)
HSA 3122	U.S. Health Care Systems	3 hrs
HSA 4120	Community Health Services	3 hrs
HSA 4180	Org and Mngmnt for Health Agencies	3 hrs
HSA 4193	Health Care Automation	3 hrs
HSC 4500	Epidemiology	3 hrs

Restricted Elective		(3 hrs)
HSC 3640	Health Law or	
HSC 4653	Health Care Ethics <i>or</i>	
HSA 4109	Managed Care <i>or</i>	
HSA 4502	Risk Management	
HSA 4700	Health Science Research Methods	

(Additional prerequisite courses may be required)

Other Requirements

- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of "C" (2.0) is required in all courses for the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

HISTORY: Minor

College of Arts and Sciences
Department of History, CNH 551
<http://pegasus.cc.ucf.edu/~history>
history@ucf.edu
 Edmund F. Kallina, 407-823-2224

Credit Hour Requirements **18 hours**

Restricted Upper Division Electives		(15 hrs)
Five upper division courses taught within the History Department		
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 School of Hospitality Management
Classroom Bldg I, Suite 302, 407-823-2188
<http://www.hospitality.ucf.edu>

E-mail: hospitality@mail.ucf.edu
 Dean: Abraham Pizam, 407-823-2188

Credit Hour Requirements **18 hours**

Required Courses		(6 hrs)
HFT 1000	Introduction to Hospitality Mgmt	3 hrs
HFT 3540	Guest Services Management I	3 hrs

Choose any two courses from the following: (6 hrs)

HFT 2403	Hospitality Financial Accounting	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 2500	Hospitality Marketing	3 hrs
HFT 2220	Hospitality Human Resource Mgmt	3 hrs
HFT 2444	Hospitality Information Systems	3 hrs
HFT 3600	Legal Environment in Hospitality	3 hrs

Choose any two courses from the following: (6 hrs)

HFT 3700	Tourism Management	3 hrs
HFT 3261	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park & Attraction Mgmt	3 hrs
HFT 2750	Meetings/Conv/Expo Industry	3 hrs
FSS 2221C	Quantity Food Preparation	3 hrs
HFT 2254	Lodging Operations	3 hrs

Other Requirements

- A minimum GPA of 2.0 in all courses used to satisfy the minor.
- At least 12 credit hours used in the minor must be earned at UCF within the School.
- 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 Sciences
Department of Philosophy, CNH 411
<http://www.cas.ucf.edu/philosophy>
philosophy@ucf.edu
 TBA, 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 the humanities program in Knowledge, Responsibility, and Society. Students interested in the Liberal Arts major may find this minor particularly helpful. In consultation with a departmental advisor, student will select courses in accordance with the distributions listed below.

Credit Hour Requirements **21 hours**

Humanities Foundations		6 hours
Select two courses:		

HUM 3431	Ancient Humanities	
HUM 3435	Medieval Humanities	
HUM 3255	Modern Humanities	
HUM 3251	Contemporary Humanities	

Humanistic/Religious Traditions **6 hours**

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	
JST 3401	The Jewish People I	

Applications **6 hours**

Select two courses:		
PHI 3803	Philosophy and Creativity	
PHI 3033	Philosophy, Religion, and the Environment	
PHM 3123	Feminist Theories	
REL 3162	Healing: Culture, Art, and Praxis	
REL 3XXX	Religion, Spirituality, and Popular Music	
REL 3XXX	Religion, Philosophy and Film	

Minors, Certificates and Study Abroad

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 hours
Select one additional course from the above list or from the following:

HUM 3320	Contemporary Multicultural Studies
HUM 4301	Classical Ideal
HUM 4303	Spiritual Ideal
PHI 4804	Critical Theory
PHI 3800	Aesthetics
PHI 3700	Philosophy of Religion
CLA 3850	Classical Mythology
CLA 3851	Comparative Mythology

Other Requirements

- A "C" (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

INTERNATIONAL BUSINESS:

Minor for Business Majors

College of Business

Office of Student Support, BA 240

Richard Ajayi, 407-823-5908

Credit Hour Requirements

18 hours

Required Courses

GEB 4361	Business in the International Env't	3 hrs
ECO 3703	International Economics	3 hrs
FIN 4604	International Financial Management	3 hrs

Restricted Elective

MAR 4156	International Marketing	(3 hrs)
MAN 4600	International Management	(3 hrs)

Electives

ANT 3212	People of the World	(6 hrs)
ECS 4003	Comparative Economic Systems	
ECS 4013	Economic Development	
GEO 3470	World Political Geography	
INR 4035	International Political Economy	
INR 4401	International Law I	
INR 4224	Contemporary International Politics of Asia	
INR 4243	International Politics of Latin America	
Special Topics Seminars in International Business; 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) 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.

INTERPERSONAL COMMUNICATION: Minor

College of Arts and Sciences

Nicholson School of Communication, COM 288

<http://www.cas.ucf.edu/communication>

communication@ucf.edu

K. Phillip Taylor, 407-823-2681

Credit Hour Requirements

21 hours
(6 hrs)

Required Courses

COM 3311	Communication Research Methods
SPC 3301	Interpersonal Communication

Restricted Electives

COM 3011C	Communication and Human Relations	(15 hrs)
SPC 3425C	Group Interaction and Decision-Making	
SPC 4331	Nonverbal Communication	
SPC 4350	Studies in Listening	
SPC 4540	Attitudes and Communication	
COM 4461	Intercultural Communication	
COM 4462	Conflict Management	

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.

ITALIAN: Minor

College of Arts and Sciences

Foreign Languages and Literatures, CNH 523

<http://pegasus.cc.ucf.edu/~forlang>

foreignlanguage@ucf.edu

C. E. Stebbins, 407-823-2472

Credit Hour Requirements

18 hours

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.

JAZZ STUDIES: Certificate

College of Arts and Sciences

Department of Music, CNH 205

<http://pegasus.cc.ucf.edu/~ucfmusic>

music@ucf.edu

TBA, 407-823-2869

This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.Music degree, provided that the student works with an advisor in the program.

Admission Requirement

Student must satisfactorily audition for the Department of Music.

Credit Hour Requirements

13 hours
(13 hrs)

Required Courses

MUT 3170	Jazz Theory I	2 hrs
MUT 3171	Jazz Theory II	2 hrs
MUT 3641	Jazz Improvisation I	2 hrs
MUT 3642	Jazz Improvisation II	2 hrs
MUL 2016	Evolution of Jazz	3 hrs
MUS 4932	Independent Study in Jazz	2 hrs

Other Requirements

- Must complete all course and non-course requirements (recitals and proficiency examinations) of the Music major in order to qualify for the certificate within the degree.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the certificate.
- At least 9 hours used in the certificate 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 certificate.

JUDAIC STUDIES: Minor, Certificate

College of Arts and Sciences

Judaic Studies Program, CNH 201

http://www.cas.ucf.edu/judaic_studies

E-mail: judaicst@ucf.edu

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, Foreign Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women's Studies Programs. Students who desire to minor in Judaic Studies are encouraged to meet with the program director. The certificate in Judaic Studies will be awarded to students completing 15 credits in Judaic Studies.

Credit Hour Requirements 18-26 hours
Required Courses (or proficiency) (0-8 hrs)

HBR 1120 Elem Modern Hebrew Lang and Cult I
 HBR 1121 Elem Modern Hebrew Lang and Cult II

Restricted Upper Division Electives (18 hrs)

Jewish History

JST 3144 Dead Sea Scrolls
 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

Literature

JST 3100 The Hebrew Creative Mind
 JST 3751 Literature of the Holocaust

Culture

JST 3820 Modern Hebrew Culture
 JST 3810 The Jewish National Movement
 JST 3XXX Modern Jewish Experience
 JST 3820 Modern Hebrew Culture:

Language

HBR 2200 Intermediate Modern Hebrew Language and Culture I
 HBR 2201 Intermediate Modern Hebrew Language and Culture II
 HBR 3410 Conversational Israel: Hebrew
 Other courses, including special topics, with the approval of the Director

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

LANGUAGE DEVELOPMENT AND DISORDERS: Certificate

College of Health and Public Affairs
Department of Communicative Disorders,
HPA2 , Suite 101

<http://www.cohpa.ucf.edu/comdis>

Amy Mulcahy, 407-823-4798
 e-mail: amulcahy@mail.ucf.edu

Language disorders are the most prevalent communication disorder. Typically children, adolescents and adults with language disorders are served via a team approach that includes speech-language pathologists, psychologists, neurologists, pediatricians, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

Credit Hour Requirements 13 hours

Required Courses

LIN 3716 Language Development: Birth through 8 years 3 hrs
 LIN 3717 Language Development: 9 through 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.
- Grades less than "C-" (1.75) are not accepted.
- At least 10 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

LATIN AMERICAN AREA STUDIES: Minor College of Arts and Sciences

Sociology & Anthropology, PH 403

achase@mail.ucf.edu

Arlen Chase, 407-823-2124

The minor provides students with a background that can be applied to careers in teaching, government, business, non-profit organizations, as well as international, inter-American and Peninsular Affairs.

Credit Hour Requirements 18 hours

Admission Requirement

Admission by interview with the program Director

Required Skills

Students must complete the introductory language sequence in Spanish or show proficiency

Restricted Electives (18 hrs)

18 semester hours taken from the following, with 12 of the hours in three different disciplines and at least 6 hours in one. Courses must be selected in consultation with the Director

Anthropology:

ANT 3164 The Inca
 ANT 3168 Maya Archaeology (or ANG 6168)
 ANT 3332 People and Cultures of Latin America
 ANT 3163 Mesoamerican Archaeology
 ANT 4308 Gender Issues in Latin America
 ANT 4824 Advanced Archaeological Fieldwork
 ANT 4180C Seminar in Laboratory Analysis
 ANG 6324 Contemporary Maya
 ANG 5167 Maya Hieroglyphics
 ANG 5228 Maya Iconology

Art:

ARH 4655 Meso American Art

Economics:

ECO 2013 Macroeconomics
 ECO 3703 International Economics
 ECO 4701 The Global Economy
 ECS 4XXX Mexican Economy

Foreign Language:

SPN 2230 Intermediate Spanish Lang & Civ I
 SPN 2231 Intermediate Spanish Lang & Civ II
 any upper division Spanish Language, Literature, Business or Civilization course

History:

EUH 3315 History of Modern Spain
 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
 LAH 5937 Latin America's Colonial Legacy: The Maya

Political Science:

CPO 4303 Comparative Latin American Politics
 INR 4243 International Politics of Latin America
 CPO 3034 Politics of Developing Areas
 CPO 5334 Contemporary Politics in the Maya Region

Required Thesis

A thesis (or comparable proof of writing skills) must be approved before graduation

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF 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.

LEGAL STUDIES: Minor

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HPA 311

David B. Slaughter, 407-823-2603

E-mail: dslaught@mail.ucf.edu

Credit Hour Requirements 21 hours

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

Minors, Certificates and Study Abroad

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MAGAZINE JOURNALISM: Minor

College of Arts and Sciences

Nicholson School of Communication, COM 258

<http://www.cas.ucf.edu/communication>

journalism@ucf.edu

Dr. Maria C. Santana, 407-823-2681

Prerequisites

- Grammar proficiency requirement

Credit Hour Requirements

Required courses

JOU 2100C	News Reporting	3 hrs
JOU 3510	Magazine Publishing	3 hrs
JOU 4224	Magazine Editing and Production	3 hrs

Restricted Upper Division Electives

ENC 3310	Magazine Writing I	3 hrs
JOU 3200	Editing I	3 hrs
JOU 3202	Editing II	3 hrs
JOU 4300	Feature Writing	3 hrs
JOU 4308	Freelance Writing	3 hrs
JOU 4340C	New Media Studies	3 hrs

18 hours

(9 hrs)

(9 hrs)

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 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

College of Business Administration

Department of MIS, BA 309

407-823-3174

Credit Hour Requirements

18 hours

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

ISM 3011	Management Information Systems	3 hrs	(minimum 15 hrs)
ISM 3214	Database Management Systems in Business	3 hrs	
ISM 3482	Essentials of Electronic Commerce	3 hrs	
ISM 3013	Introduction to Information Systems Management	3 hrs	
ISM 3521	Business Applications	3 hrs	

Electives (choose one)

ISM 3424	Computer-aided Decision Making	3 hrs	(minimum 3 hrs)
ISM 3043	Technology and Society	3 hrs	
Any programming language course		(minimum) 3 hrs	
Other ISM course (requires prior approval)		(minimum) 3 hrs	

Other Requirements

- A grade of "C" (2.0) is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours of upper division credit 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.

MARKETING: Minor

(Open to Business and Non-Business Students)

College of Business Administration

Department of Marketing, BA 353

Credit Hour Requirements

18 hours

Required Courses

MAR 3023	Marketing	3 hrs
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(3 hrs)

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	Customer Behavior
MAR 3613	Marketing Analysis and Research
MAR 3641	Marketing Intelligence
MAR 3880	e-Marketing
MAR 4156	International Marketing <i>or</i>
MAR 4724	Strategic Foundations in Global e-Business
MAR 4231	Retailing Management
MAR 4711	Sport Marketing
MAR 4712	Healthcare Marketing
*MAR 4803	Marketing Management
*MAR 4804	Marketing Strategy
MAR 4841	Services Marketing

*Requires prerequisites in addition to MAR 3023

Restricted Non-Marketing Elective

(0-3 hrs)

Three hours of coursework may be chosen outside of marketing from the list below. However, other courses outside Marketing will also be considered—approval by petition to the Department.

ADV 3000, ANT 3640, COM 3011C, COM 3311, COM 3120, COM 3110, ENC 3211, EXP 3404, HSA 3122, PHI 3803, PPE 3003, PSY 3214C, RTV 3000, SOP 3004, SPC 3301, SPC 4331, SPC 4350, SPC 4426, STA 4102, SYA 3300, 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.
- 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.

MARKETING: Certificates

College of Business Administration

Department of Marketing, BA 353

*Restricted to Marketing majors

9 hours

Certificates will be awarded at the time of degree completion

Certificate in Selling and Sales Management

MAR 3403	Sales Force Management
**MAR 4941	(internship in sales-related position)

One additional Marketing elective

Certificate in Retailing Management

MAR 4231	Retailing Management
**MAR 4941	(internship in retail-related position)

One additional Marketing elective

Certificate in e-Marketing

MAR 3880	e-Marketing
**MAR 4941	(internship in "e"-related position)

One additional Marketing elective

Certificate in Sport Marketing Management

MAR 4711	Sport Marketing
**MAR 4941	(internship in sport-related position)

One additional Marketing elective

Certificate in Healthcare Marketing

MAR 4712	Healthcare Marketing
**MAR 4941	(internship in healthcare-related position)

One additional Marketing elective

Minors, Certificates and Study Abroad

Certificate in Services Marketing

MAR 4841 Services Marketing
 **MAR 4941 (internship in services-related position)
 One additional Marketing elective
 * These nine hours count as the nine elective marketing hours required in the major.
 ** Certificate attainment is subject to the availability of internship opportunities in the area of interest.

MASS COMMUNICATION: Minor

College of Arts and Sciences
Nicholson School of Communication, COM 228
<http://www.cas.ucf.edu/communication>
communication@ucf.edu

Mike Meeske, 407-823-2681

Credit Hour Requirements

Restricted Electives

ADV 3000	Principles of Advertising	18 hours (18 hrs)
COM 3330	Computer Mediated Communication	
FIL 2400	History of Motion Pictures	
FIL 3006	Art of the Cinema	
FIL 3410	History of Animated Films I	
JOU 3004	History of American Journalism	
MMC 3420	Mass Media Research Methods	
MMC 4200	Mass Communication Law	
MMC 4300	International Media	
PUR 4000	Public Relations	
RTV 3000	Development and Structure of Electronic Media and New Technology	
RTV 3200	Production Fundamentals and Aesthetics of Electronic 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.

MATHEMATICS: Minor

College of Arts and Sciences
Department of Mathematics, MAP 230C
<http://math.ucf.edu>
math@mail.ucf.edu

Martin Heinzer, 407-823-2697, mheinzer@pegasus.cc.ucf.edu

Credit Hour Requirements

Required Courses

Select one complete Calculus sequence
 MAC 2311, MAC 2312, MAC 2313 *or*
 MAC 2281, MAC 2282, MAC 2283
 MAP 2302 Differential Equations 3 hrs
 (MAC 2311 and 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)
 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.

MIDDLE EASTERN STUDIES: Minor

College of Arts and Sciences
Middle Eastern Studies Program, CNH 201
http://www.cas.ucf.edu/MiddleEast_studies

The Liberal Studies Advising Team, 407-823-0144

Janan Smither, 407-823-5859

John Bersia, 407-823-0687

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

Required Courses

CPO 3403	Politics of the Middle East	21 hours (9 hrs)
HUM 3419	Islamic Thought and Culture	
ASH 3223	The Modern Middle East	

Restricted Electives

ARA 2200	Intermediate Arabic Language and Civ I	(12 hrs)
ASH 3222	Islam and Its Empires	
ASH 5227	The Arab-Israeli Conflict	
CPO 4710	Women in Comparative Politics	
HBR 2200	Intermediate Modern Hebrew I	
HUM 3553	Moses, Jesus and Muhammad	
JST 3401	The Jewish People I	
JST 3402	The Jewish People II	
JST 3820	Modern Hebrew Culture	
PHH 3200	Medieval Philosophy	
REL 2300	World Religions	

Additional courses may be used only with prior permission of the program director. Although not required, students are strongly encouraged to complete at least one year of Arabic (ARA 1120, 1121) and/or Hebrew (HBR 1120, 1121).

Other Requirements

- Students who are also minoring or completing a certificate in Judaic Studies may not have more than 3 credits that are counted in both programs
 At least 15 hours used to satisfy this minor must be at the upper division.
- A grade of "C" or above (2.0) is required in each course for the minor.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

MILITARY SCIENCE: Minor

College of Engineering and Computer Science
Army ROTC, BLDG 501

LTC John J. Ruzich, 407-823-2430

Credit Hour Requirements

Required Courses

MSL 3201	Leadership and Problem Solving	19 hours
MSL 3201L	Leadership and Problem Solving Laboratory	
MSL 3202	Leadership and Ethics	
MSL 3202	Leadership and Ethics Laboratory	
MSL 4301	Leadership and Management	
MSL 4301L	Leadership and Management Laboratory	
MSL 4302	Officership	
AMH 4302L	Officer Leadership Laboratory	
AMH 3540	Military History	

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

Minors, Certificates and Study Abroad

MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor

College of Health and Public Affairs

Department of Molecular Biology and Microbiology,
HPA2 335

P.E. Kolattukudy, 407-823-5932

E-mail: pkolattu@mail.ucf.edu

Credit Hour Requirements

30 hours

Required Courses

(23 hrs)

BSC 2010C	General Biology	4 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3233	Immunology	3 hrs
PCB 3233L	Immunology Laboratory	1 hr
PCB 3523	Molecular Biology I	3 hrs
PCB 4524	Molecular Biology II	3 hrs
BSC 3404C	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 Sciences

Department of Music, CNH 205

<http://pegasus.cc.ucf.edu/~ucfmusic>

music@ucf.edu

TBA, 407-823-2869

Admission Requirement

A successful audition on the student's principal instrument or voice.

Credit Hour Requirements

21 hours

Required Courses

(21 hrs)

MUT 1111	Music Theory IA	2 hrs
MUT 1112	Music Theory IB	2 hrs
MUT 1241	Ear Training and Sight Singing IA	1 hr
MUT 1242	Ear Training and Sight Singing IB	1 hr
MUL 2010	Enjoyment of Music	3 hrs
Major Ensemble- 4 semesters		4 hrs
(credit must spread over at least 4 separate semesters)		
Performance level I -2 semesters		4 hrs
Performance level II-2 semesters		4 hrs
(on the same performance medium)		
MUS 1010	Music Forum (4 semesters)	0 hrs

Other Requirements

- Two semesters of a major performing organization and two semesters of performance level II, must be completed at UCF
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not 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.

MUSIC TECHNOLOGY: Certificate

College of Arts and Sciences

Department of Music, CNH 205

<http://pegasus.cc.ucf.edu/~ucfmusic>

music@ucf.edu

TBA, 407-823-2869

This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.Music degree, provided that the student works with an advisor in the program.

Admission Requirement

Student must satisfactorily audition for the Department of Music.

Credit Hour Requirements

12 hours

Required Courses

(12 hrs)

MUC 3311	MIDI Sequencing I	3 hrs
MUC 4441	MIDI Sequencing II	3 hrs
MUS 4347C	Digital Notation	3 hrs
MUC 1101C	Composition I	1 hr
Directed Experience		2 hrs

Other Requirements

- Must complete all course and non-course requirements (recitals and proficiency examinations) of the Music major in order to qualify for the certificate within the degree.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the certificate.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least nine hours used in the certificate 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 certificate.

NONPROFIT MANAGEMENT: Certificate

College of Health & Public Affairs

Department of Public Administration, HPA2 238

<http://www.cohpa.ucf.edu/pubadm/>

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.

Credit Hour Requirements

18 hours

Required Courses

(15 hrs)

PAD 4144	Nonprofit Organizations	3 hrs
PAD 4148	Volunteer Management	3 hrs
PAD 4147	Resource Dev. in the Nonprofit Sector	3 hrs
PAD 4325	Program Eval. Public & Nonprofit Org	3 hrs
PAD 4153	Strategic Planning & Implementation	3 hrs

Restrictive Elective Course

(3 hrs)

See advisor for approved courses.

Other Requirements

- A minimum grade of "C" (2.0) is required in each course.
- Students must earn a 2.0 ("C") for credit to be accepted.
- At least 12 hours used in the program must be earned at UCF within the Department of Public Administration.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the program.

NORTH AMERICAN INDIAN STUDIES: Minor

College of Arts and Sciences

Department of Sociology and Anthropology, PH 403

David E. Jones, 407-823-2227

The North American Indian Studies minor will develop a more sophisticated understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

Minor Requirements:

- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

Credit Hour Requirements

(18 hours)

Required Courses

(6 hours)

ANT XXXX	Survey of the North American Indians	3 hrs
ANT 4912	Directed Thesis Research	3 hrs

Restricted Electives

(12 hours)

Courses used in the minor must be taken in at least two departments. Select four courses from the following list.

ANT 3245	Religions of the North American Indians	3 hrs
ANT 3313	Indians of the North American High Plains	3 hrs
ANT 3311	Indians of the Southeastern United States	3 hrs
ANT 3158	Florida Archaeology	3 hrs
ANT 4906	Independent Study	3 hrs
ANT 3314	Indians of the Northeast Woodlands	3 hrs
ANT 3318	Indians of the Northwest Coast	3 hrs
AMH 3441	History of the Frontier: Eastern America	3 hrs

Minors, Certificates and Study Abroad

AMH 4110	Colonial America	3 hrs
AMH 4112	The Atlantic World	3 hrs
AML 3640	Native American Literature	3 hrs
ANT 4153	North American Archaeology	3 hrs
SYD 3752	Modern Law in Indian Country	3 hrs
SYD 3751	North American Indian Women Today	3 hrs
SYD 3750	Contemporary Social Issues and North American Indians	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.
- No credit by exam (TSD, Military credit) may be used.

ORGANIZATIONAL COMMUNICATION: Minor

College of Arts and Sciences

Nicholson School of Communication, COM 258

communication@ucf.edu

K. Phillip Taylor, 407-823-2681

Credit Hour Requirements

Required Courses (6 hrs)

COM 3120	Organizational Communication	3 hrs
COM 3311	Communication Research Methods	3 hrs

Restricted Upper Division Electives (15 hrs)

COM 3011C	Communication and Human Relations
COM 3110	Business and Professional Communication
SPC 3425C	Group Interaction and Decision-Making
SPC 3445	Leadership Through Oral Communication
COM 4461	Intercultural Communication
COM 4462	Conflict Management

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.

PHILOSOPHY: Minor

College of Arts and Sciences

Department of Philosophy, CNH 411

<http://www.cas.ucf.edu/philosophy>

philosophy@ucf.edu

TBA, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to the philosophy program in Knowledge, Responsibility, and Society. Students, in consultation with a departmental advisor, will select courses in accordance with the distributions listed below.

Credit Hour Requirements

Philosophical Foundations: (9 hrs)

Select one course from each of the following groups:

Reasoning

PHI 2011	Philosophical Reasoning
PHI 2101	Critical Thinking
PHI 2100	Formal Logic I

Ethics

PHI 3670	Ethical Theory
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Knowledge

PHI 3320	Philosophy of Mind
PHI 4341	Ways of Knowing
PHI 4300	Theories of Knowledge

Disciplinary and Interdisciplinary Knowing (3 hours)

Select one course

PHM 3400	Philosophy of Law
PHI 3700	Philosophy of Religion
PHI 4400	Philosophy of Science
PHI 4420	Philosophy of Social Science
PHI 3451	Philosophy of Psychology
PHI 3800	Aesthetics

Applications (6 hours)

Select two courses

HUM 4330	Performance Theory
PHI 2647	Logic and Ethics
PHI 3022	Sexuality, Gender & Philosophy
PHI 3033	Philosophy, Religion, and the Environment

PHI 3601	Practical Wisdom
PHI 3638	Ethical Issues in the 21st Century
PHI 3640	Environmental Ethics
PHI 3941	Philosophy Practicum
PHI 4931	Philosophy in the News
PHI 4633	Ethics and Biological Science
PHI 4804	Critical Theory
PHM 3100	Freedom and Justice
PHM 3123	Feminist Theory
PHM 4031	Environmental Philosophy
REL 3XXX	Religion, Philosophy and Film

Upper Division Restricted Elective (3 hours)

Select an additional course from those listed above or another upper division Philosophy course

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.

PHYSICS: Minor

College of Arts and Sciences

Department of Physics, MAP 310

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

physics@ucf.edu

Ralph Llewellyn, 407-823-2325

Credit Hour Requirements

Required Courses (11 hrs)

PHY 2048	Physics for Eng and Sci I	3 hrs
PHY 2048L	Physics Laboratory for Eng and Sci I	1 hr
PHY 2049	Physics for Eng and Sci II	3 hrs
PHY 2049L	Physics Laboratory for Eng and Sci II	1 hr
PHY 3101	Physics for Eng and Sci III	3 hrs

Restricted Upper Division Electives (9 hrs)

Selected from upper-level Physics lecture or laboratory courses appropriate for majors

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 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.

POLITICAL SCIENCE: Minor

College of Arts and Sciences

Department of Political Science, CNH 415

<http://pegasus.cc.ucf.edu/~politics>

politics@ucf.edu

Roger Handberg, 407-823-2608

Credit Hour Requirements

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 4941 (Internship) may be counted

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- 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, Certificates and Study Abroad

POLITICAL SCIENCE/PRELAW: Minor

College of Arts and Sciences

Department of Political Science, CNH 415

<http://pegasus.cc.ucf.edu/~politics>

politics@ucf.edu

Roger Handberg, 407-823-2608

Credit Hour Requirements

18 hours

Required Courses

POS 2041	American National Government	3 hrs
POS 4284	Judicial Process and Politics	3 hrs

Restricted Elective

INR 4401	International Law I	(3 hrs)
INR 4402	International Law II	
POS 4603	American Constitutional Law	(3 hrs)
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 4941 (Internship) may be counted

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- 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 Arts and Sciences

Psychology Department, PH 302

<http://pegasus.cc.ucf.edu/~psych>

psychology@ucf.edu

Jack McGuiire, 407-823-2216

Undergraduate Advising: Psychology Advising Center,
PH 305G, 407-823-2219

The Psychology Department offers minors in several emphasis areas; Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. The guiding principle in design of a minor is to select those Psychology courses which will strengthen the graduate school preparation and/or the marketability of the student's major program. Emphasis areas will not appear on the transcript.

Credit Hour Requirements

22 hours

Required Courses

PSY 2012	General Psychology	3 hrs
STA 2014C	Principles of Statistics <i>or</i>	3 hrs
STA 2023	Statistical Methods I	
PSY 3214C	Research Methods in Psychology	4 hrs

Restricted Electives

12 hours of Psychology courses (12 hrs)

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 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.

PUBLIC ADMINISTRATION: Minor

College of Health and Public Affairs

Department of Public Administration, HPA2 238

Dr. Ronnie L. Korosec, 407-823-5732

E-mail: rkorosec@mail.ucf.edu

Credit Hour Requirements

18 hours

Required Courses

PAD 3003	Public Admin in American Society	3 hrs
PAD 4034	The Administration of Public Policy	3 hrs

PAD 4104	Administrative Theory	3 hrs
PAD 4204	Fiscal Management	3 hrs
PAD 4414	Public Personnel Administration	3 hrs
PAD 4720	Survey Research in Public Admin	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 ("C") to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

RELIGIOUS STUDIES: Minor

College of Arts and Sciences

Philosophy Department, CNH 411

<http://www.cas.ucf.edu/philosophy>

philosophy@ucf.edu

TBA, 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 hours

Required Courses

REL 2300	World Religions	3 hrs
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Restricted Electives

See department for approved list of courses (18 hrs)

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 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.

RUSSIAN AREA STUDIES: Minor

College of Arts and Sciences

History Department, CNH 551

history@ucf.edu

Richard Crepeau, 407-823-2224

Credit Hour Requirements

19 hours

Language requirement

RUS 1121	Elementary Russian Lang & Civ II	(4 hrs)
(completion of the course or credit by examination)		

Required Courses

EUH 4576	History of Russia in the 20th Century	3 hrs
CPO 4643	Government and Politics of Russia	3 hrs
PHH 3041	Russian Philosophy	3 hrs

Restricted Upper Division Electives

EUH 4571	History of Russia to 1801	(6 hrs)
EUH 4574	History of Russia: 1801-1917	
CPO 3614	Politics of Eastern Europe	
ECO 3703	International Economics	
INR 4035	International Political Economy	
EUH 4582	20th Century Russian Diplomatic History	

Other Requirements

- A minimum GPA of 2.0 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.
- Except for the foreign language requirement, no credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SECURITY MANAGEMENT: Certificate

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies,
HPA 311

Jerome Randall, 407-823-2603

E-mail: jrallan@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.

Credit Hour Requirements

Required Courses

CJT 3804	Security Administration	3 hrs	15 hours (12 hrs)
CJT 3803	Security Management	3 hrs	
CJT 4843	Risk Management	3 hrs	
CCJ 4644	White Collar Crime	3 hrs	
		3 hrs	

Restricted Upper Division Electives

Select one of the following:

CCJ 4661	Conflict and Terrorism	3 hrs	(3 hrs)
CJE 3444	Crime Prevention	3 hrs	
CJT 3842	Special Security Problems	3 hrs	
PLA 5937	Seminar in Contemporary Legal Problems	3 hrs	
PLA 3273	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.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

Credit Hour Requirements

Required Courses

One method course, selected from the three immediately below		21 hours (3 hrs)
POS 3703	Scope and Methods of Political Science	
PSY 3214C	Research Methods in Psychology	
SYA 3300	Research Methods	

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 Arts and Sciences

Department of Sociology & Anthropology, PH 403

http://www.cas.ucf.edu/soc_anthro/firstpage.html

sociology@ucf.edu

Jay Corzine, 407-823-2227

Credit Hour Requirements

Required Courses

SYG 2000	General Sociology	3 hrs	18 hours (3 hrs)
		3 hrs	

Restricted Electives

(3 hrs)

2000-4000 level Sociology courses

Restricted Upper Division Electives

(12 hrs)

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 3 hours of Independent Study credit can be used toward the minor.

SPACE STUDIES: Minor

College of Engineering and Computer Science

Department of Mechanical, Materials and Aerospace
Engineering, ENGR 307

407-823-2416

Fax 407-823-0208

In response to the needs of the Central Florida space community, UCF offers a multidisciplinary Minor in Space Studies. It is intended for students of all disciplines and includes courses from aerospace engineering, electrical engineering, environmental engineering, instructional programs, physics, physical education, and political science.

Credit Hour Requirements

Required Courses

AST 2002	Astronomy	3 hrs	21 hours (9 hrs)
EGN XXXX	ST: Space Science and Technology	3 hrs	
GEO 4131C	Remote Sensing of the Environment	3 hrs	

Restricted Electives

EAS 3010	Fundamentals of Aerospace Flight	(12 hrs)
EAS 3101	Fundamentals of Aerodynamics	
EAS 3530	Space Systems Concepts	
EAS 4505	Orbital Mechanics	
EGN 4830	Telecommunications	
GEO 1200	Physical Geography	
GEO 2370	Resources Geography	
INR 4404	Space Law	
PET 4351	Applied Exercise and Human Physiol	
PUP 3508	Space Studies	
PUP 4510	Space Policy	
SCE 5825	Space Science for Educators	

Other Requirements

- Formal declaration of the minor should occur before nine credit hours have been completed.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

SPANISH: Minor

College of Arts and Sciences

Foreign Languages and Literatures, CNH 523

<http://pegasus.cc.ucf.edu/~forlang>

foreignlanguage@ucf.edu

C. E. Stebbins, 407-823-2472

Credit Hour Requirements

18 hours

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.

Minors, Certificates and Study Abroad

- 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.

STATISTICS: Minor

College of Arts and Sciences
Statistics Department, CC II 212
<http://www.cas.ucf.edu/statistics>
statistics@ucf.edu

L. Hoffman, 407-823-5525

Credit Hour Requirements **18 hours**

Required Courses

STA 2023	Statistical Methods I	3 hrs
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

STA 3xxx-4xxx courses
(STA 2023 or STA 3032 or the equivalent cannot be used as a restricted elective)

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.

TECHNOLOGY AND SOCIETY: Minor

College of Engineering and Computer Science
ENGR 207

The College of Engineering offers a minor in Technology and Society to interested UCF students. The minor is intended for students not enrolled in the College of Engineering, although students in the College may also be awarded the minor.

Credit Hour Requirements **18 hours**

Suggested Prerequisite Courses

MAC 1105 College Algebra
GEP Cultural and Historical Foundations

Restricted Upper Division Electives

A minimum of nine hours must be taken from the EGN/ETI prefix courses listed below

EGN 4033	Technology and Social Change
EGN 4813	Science in History
EGN 4814	Technology in History
EGN 4823	Topics in Urban Development
EGN 4824	Energy and Society
EGN 4825	Environment and Society
EGN 4830	Telecommunications
ETI 3671	Technical Economic Analysis
ETI 4205	Applied Logistics
ETI 4700	Occupational Safety
GEO 2370	Resources Geography
LIT 3313	Science Fiction
LIT 4433	Survey of Technical and Scientific Literature
PUP 3203	Environmental Politics
PUP 4503	Government and Science
PUP 4510	Space Policy

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

THEATRE - GENERAL: Minor

College of Arts and Sciences
Theatre Department, THE 120
<http://pegasus.cc.ucf.edu/~theatre>
theatre@ucf.edu

Joe Rusnock, 407-823-2861

Credit Hour Requirements **27 hours**

Entrance Requirement

A successful interview and audition or portfolio review

Required Courses

(27 hrs)

Note: The number assigned many courses will change.

Use the Prefix and title to determine the proper course.

THE 2000	Theatre Survey	3 hrs
THE 2090*	Theatre Production/Performance I	1 hr
THE 3303	Play Analysis	3 hrs
THE 2091*	Theatre Production/Performance II	1 hr
THE 3092*	Theatre Production/Performance III	1 hr
THE 3110	Theatre History I	3 hrs
THE 3111	Theatre History II	3 hrs
THE 3305	Dramatic Literature I	3 hrs
THE 2271	Performance Studies	3 hrs
THE 3306	Dramatic Literature II	3 hrs
TPA 2201	Technical Theatre Production	3 hrs

* Course must be taken at UCF

Other Requirements

- Participation on a minimum of one departmental production during both the Fall and Spring terms for four semesters
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 18 hours used in the minor, including those marked by an asterisk, 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.

TRANSLATION AND INTERPRETATION: Certificate

College of Arts and Sciences
Foreign Languages and Literatures, CNH 505
<http://pegasus.cc.ucf.edu/~forlang>

foreignlanguage@ucf.edu

Maria Redmon, CNH 512, 407-823-5738

redmon@ucf.edu

Credit Hour Requirements **18 hours**

Required Skills

Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses

(9 hours)

SPT 3800	Spanish Translation and Interpretation	3 hrs
SPT 3809	Medical Span Trans/Interp	3 hrs
SPT 3831	Spanish Legal Trans/Interp	3 hrs

Restricted Upper Division Electives

(9 hours)

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.

URBAN AND REGIONAL PLANNING: Minor

College of Health and Public Affairs
Department of Public Administration, HPA2 238

Dr. K. Tom Liou, 407-823-2604

Fax: 407-823-5651

Credit Hour Requirements

21 hours

Required Courses

PAD 3000	Urban and Regional Planning	3 hrs
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Minors, Certificates and Study Abroad

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 encouraged to take the following courses as electives to enhance their understanding of the field.

ECP 3433	Transportation Economics
ECP 4603	Urban and Regional Economics
TTE 4004	Transportation Engineering

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.

VOCATIONAL EDUCATION and INDUSTRY TRAINING: Minor

College of Education

Department of Teaching and Learning Principles

ED building, second floor

L. Hudson, 407-823-2848, lhudson@mail.ucf.edu

The minor in Vocational Education and Industry Training provides a limited, but substantive experience in the area of vocational education and industry training of adults. The minor is not intended for students admitted to a degree program in the College of Education and does not lead to teacher certification or admission to the College of Education. All courses are offered solely using the Web.

Credit Hour Requirements 18 hrs

Entrance requirements

Junior standing.

Required courses

ADE 4382	Teaching Adult Learners	3 hr
EVT 4368	Advanced Teaching Techniques in Vocational Education	3 hr
EVT 3062	Professional role of the Vocational Teacher	3 hr
EVT 3367	Evaluation in Vocational Education	3 hr
EVT 4169	Curriculum Development for Industry Training	3 hr
EVT 4065	Principles and Practices in Vocational Education	3 hr

Other requirements

- A minimum of 4 courses of the 6 required must be completed at UCF within the Program of courses listed above.
- A grade of "C" (2.0) or better must be achieved in each course used for this Minor.
- Internship, Co-op, or Independent Study credit cannot be used towards this Minor.
- No Military credit can be used toward this Minor.
- Completion of this Minor does not complete requirements for certification as a Vocational Education teacher nor does it constitute admission to the College of Education.

WOMEN'S STUDIES: Minor

www.cas.ucf.edu/womensstudies

College of Arts and Sciences

Women's Studies Program, CNH 201H

L. M. Logan, 407-823-6502,

Email: womenst@ucf.edu

The minor in Women's Studies provides students with an opportunity to learn about women's historical and contemporary roles, gain a working knowledge of interdisciplinary feminist scholarship, and reflect on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments of Art, Communications, Criminal Justice, English, Exceptional and Physical Education, Health Professions and Physical Therapy, History,

Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology and Anthropology, and Theatre.

Credit Hour Requirements

18 hours

Required Courses

WST 3015	Introduction to Women's Studies	3 hrs
Select one course from the Feminist Theory group:		
PHM 3123	Feminist Theories or	3 hrs
LIT 4554	Advanced Feminist Theories	3 hrs

Upper Division Electives

Select two courses in each of two areas listed below:

(12 hrs)*

Women's History

AMH 3561	Women in American History I	3 hrs
AMH 3562	Women in American History II	3 hrs
ASH 4304	Women in China	3 hrs
EUH 4610	Women in European Society	3 hrs

Representations of Women

AML 3283	Contemporary Amer. Women's Fiction	3 hrs
ARH 4458	Women and Art in 20th Cent America	3 hrs
ARH 4892	Women in Art	3 hrs
COM 4014	Gender Issues in Communication	3 hrs
FIL 3309	Women in Film	3 hrs
LIT 3383	Women in Literature	3 hrs
PHI 3022	Sexuality, Gender & Philosophy	3 hrs

Women's Wellness

NUR 4935	Women's Health Issues	3 hrs
PEM 2405	Self Defense for Women and Men	3 hrs
SOP 2772	Sexual Behavior	3 hrs
SOP 3742	Psychology of Women	3 hrs

Women and Social Policy

ANT 3302	Sex, Gender and Culture	3 hrs
ANT 4308	Women and Gender Issues in Lat Am	3 hrs
CCJ 4670	Women and Crime	3 hrs
CCJ 4681	Domestic Violence and Justice System	3 hrs
CPO 4710	Women and Comparative Politics	3 hrs
INR 4085	Women, Gender, and Globalization	3 hrs
PUP 4323	Women and Public Policy	3 hrs
SYD 3800	Sex Roles in Modern Society	3 hrs
SYO 4100	Family Trends	3 hrs
SYP 4810	Women in Contemporary Society	3 hrs

* Students may be allowed to take one course from a list of restricted courses.

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 approval of the program coordinator.
- No more than one 2000 level course can be used toward the minor.

WOMEN'S STUDIES: Certificate

<http://www.cas.ucf.edu/womensstudies>

College of Arts and Sciences

Women's Studies Program, CNH 201H

L. M. Logan, 407-823-6502,

email: womenst@ucf.edu

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 hours

Required Course:

WST 3015	Introduction to Women's Studies	3 hrs
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Restricted Electives

(6-9 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)

Internships 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 below "C" (2.0) in lower level courses are not accepted.

Minors, Certificates and Study Abroad

- At least 9 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 without approval of the program director.
- No more than one 2000 level course can be used toward the certificate.

STUDY ABROAD: Programs

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

College of Arts and Sciences

Department of Foreign Languages and Literatures,

foreignlanguage@ucf.edu

Colburn Hall 523

Consueto Stebbins, 407-823-2472

The Department of Foreign Language and Literatures offers six Study Abroad Programs during the summer session. These programs are approved by the State of Florida Board of Regents and are offered annually. Credit courses are available in languages at various levels. The programs are open to all students of the State University System of Florida and to others as well.

Koblenz, Germany

Koblenz is a charming city located in one of the picturesque regions of Europe, at the junction of the Rhine and Moselle rivers. Since France, Belgium and Luxemburg are very close, the city has always has an international flair. The program is housed at the University of Koblenz and offers courses in German language and civilization at the intermediate and advanced levels; all participants earn 8 credits. A number of spectacular excursions are included. This program takes place during Summer B term.

Amman, Jordan

Modern Amman preserves its ancient past. The Assyrians, the Babylonians, the Greeks, the Arabs, the Jews and the Byzantines have all left evidence of their art, religions and culture. Students earn six credits in intermediate or advanced written and spoken Arabic as well as the history, art, politics and customs of Jordan and the Moslem world.

Urbino, Italy

The city of Urbino, on the slopes of the Eastern Appennines, is one of the major centers for the study of Renaissance art and architecture. The modern university sponsors a number of conventions of learned societies and cultural events in the summer. Courses in Renaissance art and modern Italian letters are given in English; language courses are conducted in Italian. A number of weekend excursions throughout central Italy are included. This popular program takes place during Summer B term.

Madrid, Spain

World-class museums and a lively cultural agenda make Madrid an ideal location. This program is 6 weeks and designed for students who wish to continue their study of the Spanish language and civilization. Language courses will be offered from the intermediate level through the advanced. Classes meet Monday through Friday with several weekend trips to major destinations of cultural and artistic interest in the region. All students take one language, one conversation and one cultural course for 9 credit hours. This program takes place during Summer B.

Dominica, Guadeloupe and Martinique

The volcanic islands of Dominica, Guadeloupe and Martinique are surrounded by beautiful beaches in the Caribbean. This program is designed for students interested in the French language and culture, the Caribbean, the Creole cultures as well as the African Diaspora as areas of study. All students take a combination of one culture course and a language course or one study abroad seminar for a total of 6/7 credit hours. Weekend excursions to neighboring islands are part of this Study Abroad experience. This program takes place during Summer B term.

Amboise, La Rochelle, France

Amboise is a quiet community of 12,000 residents, known for the time that Italian artist Leonardo da Vinci spent in Le Clos Luce, a pink brick manor in Amboise's center. LaRochelle, on the Atlantic coast, prides itself on 800 years of seafaring history. Courses are offered at the intermediate and advanced levels and students earn 6/9 credit hours. Weekend excursions are planned to various points

of interest. This program takes place during Summer A term.

Uraysau, Japan

Uraysau, Chiba Prefecture, is located to the east of Tokyo. This former fishing village on the Bay of Tokyo is now a fast-growing suburb of Tokyo with a population of approximately 135,000. This program offers elementary, intermediate and advanced Japanese language and culture courses at Meikai University. All students will take a language course, and conversation course and a culture course. This program takes place during Summer B term.

ENGLISH STUDY ABROAD: Program

College of Arts and Sciences

Department of Art, Visual Arts Building, 117

Edinburgh, Scotland

Fine Arts

Students register for ART 4906 (4 credits) and enroll in two consecutive weeklong courses at the Edinburgh School of Art. Edinburgh is a small friendly city with a wealth of historic and cultural attractions that inspire the creative spirit.

Mexico City, Mexico

Art History

In Mexico, the clash of the Spanish and the Aztec civilizations a half-millennia ago created a tapestry of regions, customs and rituals. Nowhere is this better reflected than in the art of Mexico City. Students enroll in ARH 3930 in Summer A. The course in Art History incorporates a ten day excursion to Mexico City.

MUSIC STUDY ABROAD

Department of Music

Colburn Hall, 205

Instruments

Moulin D'Ande, France

Students will reside at the mill, which was originally constructed in the 12th century. Today it is restored and listed as a historic monument. Since the first concert Moulin D'Ande has grown and has become an ideal retreat for artists, writers and musicians. Students earn two credits learning to play instruments of their choice.

HEALTH STUDY ABROAD

College of Health and Public Affairs

School of Social Work

Health and Public Affairs Building, 204

Pretoria, South Africa

South Africa is rapidly emerging as a leading force on the African continent and an active player on the global stage. Undoing the years of apartheid and worldwide sanctions is a significant undertaking that is accompanied by a myriad of social, political and economic concerns. Johannesburg and Pretoria are the ideal backdrop against which to study the developing South Africa. Graduate and undergraduate students earn 3 credits. Program consists of morning classroom lectures and discussions followed by afternoon field trips that compliment each morning's class topic.

Several programs combine undergraduate and graduate coursework in a more seamless educational experience for students, reducing the time spent working on both degrees and providing a challenging educational experience to outstanding undergraduates. These combined bachelor's/master's (3+2 or 4+1) programs usually take five years of work to earn both degrees.

While students are classified as undergraduate students, they are subject to undergraduate policies. Similarly, those who are classified as graduate students are subject to graduate policies.

ACCELERATED UNDERGRADUATE-GRADUATE PROGRAMS

ECONOMICS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./M.A.A.E.)

College of Arts and Sciences

Economics Undergraduate Program, CNH 201

Political Science, via the LS Advising Team,

407-823-0144 <http://www.cas.ucf.edu>

College of Business Administration

BA 240, 407-823-2184 <http://www.bus.ucf.edu>

The accelerated Program allows outstanding Economics students to earn a B.A. degree and a M.A.A.E. degree in as few as five years. Students earn fifteen hours of graduate credit toward the M.A.A.E. while still in undergraduate, and then earn an additional fifteen credits after earning the B.A. degree.

Admission Guidelines

- Acceptance to the university does not constitute admission to the accelerated program.
- An additional application to the program must be submitted, and the student accepted, through the Economics Department. Admission is not automatic.
- Apply to the program in the fifth semester of classes. See the graduate catalog for specific admission requirements <http://www.graduate.ucf.edu/currentGradCatalog>

All applicants must meet the following criteria:

- A GPA of 3.25 or higher after completion of 80 credit hours
- A score of 1260 on the SAT or 28 ACT. If students do not meet this criterion, they must submit a GMAT score of 500 or above.
- A TOEFL of 233 (computer test).

Undergraduate 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.
- Independent study forms must be approved by the director prior to taking an independent study for use in the program.
- Students must earn at least a "C" (2.0) in each restricted elective course.
- Students must consult with a program advisor in order to prepare an application.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Graduate Degree Requirements

The accelerated Program involves a minimum of 135 credits for completion of both the B.A. and M.A.A.E. degrees.

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students take fifteen graduate credit hours during their senior year which substitute for 3000- or 4000- level courses as part of the program requirements.
- Students pay graduate tuition and fees for all graduate credit hours.
- All requirements of the undergraduate and graduate degree programs must be fulfilled.
- Students should consult with a program advisor before applying for the program.
- Approval for course substitutions and for graduate courses must be given by the Economics advisors.
- The B.A. will be awarded after completing all the requirements for that degree in the undergraduate program.

Degree Requirements

1. UCF General Education Program	(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 Business	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	(3 hrs)
ECO 2013* Macroeconomics	
ECO 2023* Microeconomics	
* See transfer notes for possible substitutions	

3. Required Undergraduate Major Courses	(15 hrs)
ECO 3101 Intermediate Price Theory	3 hrs
ECO 3203 Aggregate Econ. Conditions Analysis	3 hrs
ECO 3401 Quantitative Business Tools I	3 hrs
ECO 3411 Quantitative Business Tools II	3 hrs
ECO 4451 Research Methods in Economics	3 hrs

4. Restricted Elective	(3 hrs)
Select any 3000-4000 level economics elective other than those required	3 hrs

5. Courses shared BA/MAAE	(15 hrs)
ECO 6403 Mathematical Economics	3 hrs
ECO 6416 Applied Business Research Tools	3 hrs
ECO 6118 Microeconomics Analysis	3 hrs
ECO 6206 Aggregate Econ. Conditions & Analysis	3 hrs
ECO 6424 Econometrics	3 hrs
* 15 hours can count towards both BA and MAAE	

6. Required Minor	(18 hrs)
Completion of a minor in one of the following: Computer Science, History, Mathematics, Statistics, Political Science, Psychology, or Sociology.	

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)
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Admission: Met by graduate requirement

Graduation: Two semesters or equivalent proficiency.

9. Electives	(variable)
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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.
- Completed the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required (B.A.)	120 hours
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11. Courses taken toward MAAE	(9 hrs)
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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 accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering.

12. End of Program Option:	(6 hrs)
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All candidates for the M.A. in Applied Economics degree must complete an end-of-program option. This requirement can be met by any of the following three equivalent options: 1) Thesis option, 2) Graduate internship option, or 3) All course work option. All candidates must satisfactorily complete a comprehensive, end-of-program, final examination.

See the graduate catalog for a detailed description of the options.

Total Semester hours (BA/MAAE)	135 hrs
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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

Accelerated Undergraduate-Graduate Programs

students. The MAAE 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 from private and out-of-state schools must be equivalency credit. The student must provide all supporting information.

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:

- ECO 2013 and ECO 2023 may use any ECO course. However, both ECO 2013 and ECO 2023 are prerequisites for subsequent economics courses and will still need to be taken.

ECONOMICS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.B.A./M.A.A.E.)

College of Business Administration

BA 240, 407-823-2184 <http://www.bus.ucf.edu>

Admission Guidelines

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites
- 3.25 GPA after completion of 80 credit hours
- 1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score
- Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.

Degree Requirements

1. UCF General Education Program (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 Business	3 hrs
D. Social Foundations*	
Select ECO 2013 Principles of Macroeconomics I or ECO 2023 Principles of Microeconomics II	3 hrs
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	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100C	Computer Fundamentals for Business

* At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

3. Common Body of Knowledge (30 hrs)

First Semester in the College of Business Administration:		
GEB 3031	Cornerstone	6 hrs
GEB 3356	Introduction to International Business	3 hrs
First or subsequent semesters depending on major:		
BUL 3130	Legal & Ethical Environ. of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
Last Semester:		

MAN 4720	Strategic Management	3 hrs
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4. Required Undergraduate Major Courses (9 hrs)

ECO 3101	Intermediate Price Theory	3 hrs
ECO 3203	Aggregate Econ. Conditions Analysis	3 hrs
ECO 4451	Research Methods in Economics	3 hrs

5. Restricted Electives (12 hrs)

Select one 3000 - 4000 level elective	3 hrs
Select three 6000 level electives from the Career-Oriented Specialization (six hours in Economics required)	9 hrs

6. Electives

Six additional hours of required graduate courses (ECO 6XXX Math. Economics and ECO 6416 Applied Business Res. Tools) will count towards completion of 120 hours of the BSBA degree

Total Semester Hours Required 120 hours

Economics MAAE Degree Requirements

The Master of Arts in Applied Economics component of the BSBA-MAAE degree requires 30 semester hours based on admission into the BSBA/MAAE program and completion of 120 semester hours of the BSBA component. Up to 15 hours of graduate courses will count towards the completion of the BSBA component of the BSBA/MAAE degree

Prerequisites -120 semester hours

- Admission in to the BSBA/MAAE Degree Program
- Completion of the undergraduate requirements of the Economics BSBA/MAAE degree

Courses taken toward BSBA

ECO 3101	Intermediate Price Theory	3 hours
EC3203	Aggregate Econ. Conditions Analysis	3 hours
EC4451	Research Methods in Economics	3 hours
Select one 3000-4000 level elective		3 hours

Courses shared BSBA/MAAE

ECO 6XXX*	Mathematical Economics	3 hours
ECO 6416*	Applied Business Research Tools	3 hours
Select three 6000 level electives from the Career-Oriented Specialization (six hours in Economics required)		9 hours

Oriented Specialization (six hours in Economics required)

A maximum of three hours of an approved non-economics elective may be completed from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering.

Career-Oriented Elective Concentration

Same as MAAE

Courses taken toward MAAE

ECO 6XXX	Microeconomic Analysis	9 hours
ECO 6206	Aggregate Econ. Conditions & Analysis	3 hours
ECO 6424	Econometrics	3 hours

End of Program Option

Same as MAAE

The baccalaureate degree will be awarded when program requirements for the BSBA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MAAE will be awarded on completion of the total program of study.

Total Semester hours (BSBA/MAAE) 135 hours

HISTORY ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)

College of Arts and Sciences

CNH 551, 407-823-2224

<http://pegasus.cc.ucf.edu/~history>

Graduate program E-mail: hisgrad@ucf.edu

Undergraduate program E-mail: history@ucf.edu

Chair: Edmund F. Kallina

Graduate Program Coordinator: Rosalind J. Beiler

Purpose of this degree - This program allows highly qualified undergraduate majors in history to begin taking graduate-level courses which will count towards their master's degree while completing their baccalaureate degree program. Participation will enable completion of a B.A. and M.A. in five instead of six years for students enrolled in full-time course work.

Admission Requirements

- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history

Accelerated Undergraduate-Graduate Programs

WOH 2012, 2022 World Civilization I & II

- 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
 - Students will be formally admitted to the master's program following receipt of the BA degree **Undergraduate Degree Requirements**
 - Students who change degree programs and select this major must adopt the most current catalog.
 - Students must earn at least a "B" (3.0) in each history course for it to be counted toward the major
 - Co-op credit cannot be used in this major
 - Students should consult with the departmental graduate coordinator
 - Departmental residency requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department. Students may substitute up to nine hours of 5000- or 6000-level courses to meet this requirement.
 - Students must compile a portfolio of their written work in history completed inside and outside the classroom
 - The B.A. will be awarded after completion of 36 hours of history classes
 - The M.A. will be awarded upon completion of the program
 - Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours (see history major requirements)

Graduate Degree Requirements

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students admitted to the accelerated Program may take a 5000-level course the first semester of their senior year
- After successfully completing one 5000-level course, students will be eligible to take HIS 6159 (Historiography) and another 5000-level course or the 6000-level seminar following the 5000-level colloquium they have already completed
- Students may substitute these nine hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate courses
- Students need to pay fees at the graduate rate for the graduate courses they take
- Schedule for students enrolled full-time in the accelerated program:
 - Students complete nine hours of graduate-level courses their senior year
 - Students enroll in at least three hours of graduate-level course work the summer after they receive their B.A.
 - Students enroll in nine hours of graduate-level courses in both Spring and Fall semesters during their M.A. year
 - Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first MA year
 - Students complete and defend a master's thesis in six hours

Undergraduate Requirements

- 1. UCF General Education Program (36 hrs)**
(See the History major in this catalog for track specific GEP requirements)
- 2. Common Program Prerequisites (0 hrs)**
AMH 2010* U. S. History: 1492-1877
AMH 2020* U. S. History: 1877-Present
*See Transfer Notes for possible substitutes
- 3. Core Requirements (9 hrs)**
HIS 4150 History & Historians 3 hrs
Select one sequence
EUH 2000, 2001 Western Civilization I & II 6 hrs

4. Upper Division Restricted Electives (21 hrs)

- (Must be taken within the History Department)
Select six hours of approved history courses within three of the four geographic regions 18 hrs
1. Asian, African, and Middle Eastern
 2. British and European
 3. Latin American
 4. U.S. and Canadian
- Select three hours of approved history courses 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: Two semesters or equivalent proficiency exam. 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 hours

Overall History MA Requirements (36 hrs)*

* Nine hours of graduate work are earned in the senior year, in consultation with the history graduate coordinator.

1. Required Graduate Courses (12 hrs)

HIS 6159	Historiography	3 hrs
HIS 6905	Capstone Course	3 hrs
HIS 6971	Thesis	6 hrs

2. Courses in Area of Concentration (18 hrs)

Assumes that nine additional hours of graduate courses were taken during the senior year.

(Eastern Hemisphere: African, Asian, European, or Middle Eastern; or Western Hemisphere: Caribbean, North American, or South American)

3. Outside Area of Concentration in History (6 hrs)

4. Foreign Language Requirement

Students will also be expected to demonstrate a reading competency in one foreign language. The foreign language competence must be

Accelerated Undergraduate-Graduate Programs

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, Latin American and Iberian Area Studies, Middle Eastern Studies, Russian Area 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.

LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. AND M.A./M.S.)

College of Arts and Sciences

<http://www.cas.ucf.edu/mls/AcceleratedProgram/>

Liberal Studies Undergraduate Program, CNH 201

Liberal Studies Advising Team, 407-823-0144

E-mail: ls@mail.ucf.edu

The accelerated Program allows outstanding Liberal Studies students to earn a B.A. or B.S. degree and a M.A./M.S. degree in as few as five years. Students earn nine hours of graduate credit toward the M.A./M.S. while still an undergraduate, and then earn an additional twenty-four credits after earning the B.A. or B.S. degree.

Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

Admission Requirements

Acceptance to the university does not constitute admission to the accelerated program. An additional application to the program must be submitted and the student accepted. Contact the Liberal Studies program for application materials. All applicants must meet the following criteria:

- A GPA of 3.25 or higher at UCF in their last 30 upper level credit hours before applying in the second semester of their junior year.
- At least 75 credit hours earned by time of application and 30 upper level credit hours by the end of the application semester. Decision about admission to the program will depend partially on the grades earned in the application semester if the 30 upper level (or 75 overall) credits were not earned previously.
- A GRE score of 1050 or above in the verbal and quantitative sections combined (usually taken in the second semester of the junior year).

Undergraduate Degree Requirements

Undergraduate degree requirements vary by track, and each track's requirements must be checked carefully in the appropriate Liberal Studies degree section.

- Students who change degree programs and select this major must adopt the most current catalog

- Students must have declared a Liberal Studies major at least one semester before graduation
 - Co-op or internship credit cannot be used in this major
 - Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
 - Students must earn at least a "C" (2.0) in each restricted elective course
 - Students must consult with a Liberal Studies advisor in order to prepare an application
 - 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

Graduate Degree Requirements

The accelerated Program involves a minimum of 144 credits for completion of both the B.A./B.S. and M.A./M.S. degrees.

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students take nine graduate credit hours during their senior year which substitute for 3000- or 4000-level courses as part of the program requirements.
- Students pay graduate tuition and fees for the nine graduate credit hours.
- All requirements of the undergraduate and graduate degree programs must be fulfilled.
- Students should consult with the Liberal Studies advisor before applying for the program.
- Approval for course substitutions and for graduate courses must be given by the Liberal Studies advisors.
- The B.A./B.S. will be awarded after completing all the requirements for that degree in the undergraduate program.

1. UCF General Education Program (36 hrs)

(See Liberal Studies sections of the catalog for track-specific GEP requirements)

2. Common Program Prerequisites: none

3. Track Requirements

Students complete the requirements of the program based on the track option in Liberal Arts, Liberal Studies, Computer Information Technology, Environmental Studies, or Women's Studies. See the description in the Liberal Studies sections for full information about each track.

Liberal Studies track	(61 hrs)
Minor	18 hrs
Two liberal studies areas which include at least 18 upper division hours	
Area 1	18 hrs
Area 2	18 hrs

Computer Information Technology (CIT) track	(54 hrs)
CIT Minor	36 hrs
One liberal studies area	18 hrs

Liberal Arts track	(51 hrs)
An approved course in ethics	3 hrs
An approved course in critical thinking	3 hrs
Minor	18 hrs
Individual minor	24 hrs
Directed Readings or Honors seminar	3 hrs
IDS 4970H Thesis	3 hrs

Environmental Studies Track	(54 hrs)
Core for Environmental Studies	23 hrs
Subject area: Environmental Studies Fundamentals	20 hrs
Specialized Subject area: Values, Science, Technology, Envir.	18 hrs

Women's Studies Track	(54 hrs)
Women's Studies minor	18 hrs
One Women's Studies Subject area	18 hrs
One Liberal Studies Subject area	18 hrs

4. Program Exit Requirements

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Liberal Studies, Environmental Studies, and Women's Studies tracks

- A grade of "C" or above (2.0) is required for each courses taken in each of the subject areas
- Computer Competency met by CGS 1060C, STA 1060C, or other computer-related course, or departmental assessment in the minor and

CIT track

- A grade of "C" or above (2.0) is required for each course taken in the minor and in the subject area.
- Computer Competency met by minor.

Liberal Arts track

- Maintain a minimum GPA of 3.5 in all Liberal Arts Track courses
- Maintain a minimum GPA of 3.2 in all upper level courses
- Computer Competency is met by IDS 4970H

5. 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: One year college language or equivalent proficiency exam.

Graduation-BS: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension.

Note: Students entering without having met the admission requirement must do so in order to graduate

6. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval.

7. University Minimum Exit Requirements - B.A./B.S.

- 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.A./B.S. 120 hours

(including nine graduate credits when completing the 3+2 program).

Overall Liberal Studies M.A./M.S. Requirements (33 hrs)*

* Nine hours of graduate work are earned in the senior year, in consultation with the M.A./M.S. in Liberal Studies program director.

(Please see the Graduate Catalog for specific requirements)

Core courses (9 hrs)

IDS 6308	Ways of Knowing	3 hrs
IDS 6669	Interdisciplinary Approaches to Research	3 hrs
IDS 6351	Critical Thinking and Writing	3 hrs

Concentration (18 hrs)

More than 40 concentrations and certificate affiliation programs are part of the M.A./M.S. in Liberal Studies degree. See the graduate catalog for additional information.

Options (6 hrs)

Thesis Option

Directed Readings	3 hrs
Thesis	3 hrs
Thesis defense	

Non-thesis Option

Two approved graduate courses	6 hrs
Comprehensive exam	

Total Hours Required - B.A./B.S. + M.A./M.S. 144 hours

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 and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

NURSING ACCELERATED

C. RN TO MSN OPTION

College of Health and Public Affairs

HPA 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing>

Interim Director: Mary Lou Sole

Note: For detailed information about this program, see description in the UCF Degree Programs section.

NURSING ACCELERATED SECOND DEGREE 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 Health and Public Affairs

HPA 220, 407-823-2744

E-mail: pleli@mail.ucf.edu Interim

Director: Mary Lou Sole; <http://www.cohpa.ucf.edu/nursing/>

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 School of Nursing prior to January 15 of the year admission is sought.
- UCF application must also be submitted by the program deadline.
- Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.
- Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the Registrar's Office. These students complete the "Readmission Application" form.
- Student 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 of 2.5, and complete all program prerequisite courses with a grade of "C" (2.0) or better.
- Graduates are eligible to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing and the Commission of Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements

- Students who change degree programs and select this major adopt the most current catalog
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements that cannot be answered by college advisors
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in the nursing major courses are required for continuation and graduation from the Nursing Program
- Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office.

Accelerated Undergraduate-Graduate Programs

1. UCF General Education Program

NA

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 (HUN 1201) or any Human Nutrition course	3

2. Common Program Prerequisites

(31 hrs)

PSY 2012	General Psychology	3 hrs
SYG 2000	Sociology	3 hrs
MCB 2005C	Health Microbiology	4 hrs
CHM 1032/L	General Chemistry and lab*	4 hrs
ZOO 3733C	Human Anatomy**	4 hrs
PCB 3703C	Human Physiology**	4 hrs
STA 2014C or 2023	Principles of Statistics	3 hrs
SOW 3104	Assessing Human Development or	
DEP 2004	Developmental Psychology	3 hrs
HUN 3011	Human Nutrition	3 hrs

* The first semester of a two semester general chemistry course does not meet requirement.

** May take Anatomy and Physiology sequence of six-eight total credits.

3. Core Requirements

(53 hrs)

NUR 3026L	Thera Interv. For Health Prof.	1 hr
NUR 3065	Health Assessment	3 hrs
NUR 3167	Accel Nursing Research Sem	1 hr*
NUR 3235	Promoting Physical & Mental Health	5 hrs
NUR 3235L	Clin Pract in Prom Phys/Mental Health	4 hrs
NUR 3XXX	Accel Hlth Fam and Comm	5 hrs
NUR 3XXXL	Accelerated Clin Hlth Fam and Comm	2 hrs
NUR 3825	Role of the Professional Nurse	2 hrs
NUR 3198	Pathophysiology & Pharmacology	5 hrs
NUR 4525	Nursing Intervention in Mental Illness	2 hrs
NUR 4525L	Clinical Practice w/ Mentally Ill Client	1 hr
NUR 4695	Accel Comm Continuum	2 hrs
NUR 4636L	Clinical Pract in Comm.-Orient Nrsng	2 hrs
NUR 4745	Nursing Care of Clients w/ Acute Ill	4 hrs
NUR 4745L	Clinical Practice in Acute Illness	4 hrs
NUR 4829	Accel Trans Leader	3 hrs
NUR 4945L	Directed Nursing Practice	4 hrs
NUR 4XXX	Nursing Elective	3 hrs **

* Students without a research course on transcript must take NUR 3165

** Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course. Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives

(3 hrs)

Nursing Elective:

Not required. Some NUR 4945L placements do require an elective be taken concurrently.

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
- School 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 53 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies, Psychology, Health Sciences, Health Services Administration

Transfer Notes:

Examples of Community College Equivalent Courses for Prerequisites

General Psychology (PSY X012) or any General Psychology course 3

Note: A grade of "C" (2.0) or better is required in all prerequisite courses.

Honors

University Honors and Honors in the Major Available

Tentative Course Schedule

First Semester

Summer 13 hrs		Fall 14 hrs	
NUR 3825	2	NUR 3198	5
NUR 3065	3	NUR 3235	5
NUR 3026L	1	NUR 3235L	4
NUR 3XXX	5		
NUR 3XXXL	2		

Spring 15 hrs

NUR 4745	4	Summer 11 hrs	
NUR 4745L	4	NUR 4XXX	2
NUR 4525	2	NUR 4636	3
NUR 4525L	1	NUR 4636L	2
NUR 3XXX*	1	NUR 4945L	4
		NUR 3XXX Elective**	3

Other

* Students without a research course on transcript must take NUR 3165

** Students may petition to waive elective requirements. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course. Information about tuition, fees, and length of nursing programs can be obtained from the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006. (800) 669-1656, ext. 153.

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: Electrical Engineering Technology, Business Administration, Hospitality Management, Photography, Information Systems Technology, Sports and Fitness, Nursing, and Radiologic Technology. UCF is the only university in the State University System to implement all eight of these articulation agreements.

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.
2. 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.
3. Students who have graduated with an A.S. prior to Fall 2000 are not eligible to participate in these programs. The new community college A.S. programs have slightly different requirements. Students who do not have the new A.S. should complete their general education at the community college and then transfer into the appropriate non-A.S. to B.S. program at UCF.
4. Students should write on the front of their application for admission to UCF, "A.S. - B.A./B.S." designating their desire to participate in the articulation agreement.
5. UCF will allow students to complete the UCF required General Education courses at their community college while they are enrolled and working on their degree at UCF. However, students cannot be transient in their last 30 hours at UCF.

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.

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET) A.S. to B.S.E.E.T. CONCENTRATION (Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science Engineering Technology (ENT) Department ENGR 207

Coordinator: Alireza Rahrooh

407-823-4749, Fax: 407-823-4746

E-mail: rahrooh@pegasus.cc.ucf.edu

Web Address: <http://www.ent.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 faculty 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.

1. UCF General Education Program (14 hrs)

A. Communication Foundations	3 hrs
B. Cultural and Historical Foundations	3 hrs
C. Mathematical Foundations	4 hrs
Select MAC 2311 or MAC 2253	
D. Science Foundations	4 hrs
Select PHY 2049 and PHY 2049L or PHY 2054C	

2. Common Program Prerequisites (CPP) (4 hrs)

MAC 2311 or MAC 2253	GEP
MAC 2312 or MAC 2254 or equivalent	4 hrs
PHY 2048 and PHY 2048L or PHY 2053C	GEP

3. Engineering Technology Core Requirements (21 hrs)

ETG 3541	Applied Mechanics	3 hrs
ETI 3651C	Computer Applications	3 hrs
ETI 3671	Technical Economic Analysis	2 hrs
ETI 4635	Technology Administration	3 hrs
ETI 3116	Engineering Quality Assurance	3 hrs
ENC 3241	Technical Report Writing	3 hrs
BSC 1005/L or BSC 1050/L		4 hrs

4. Upper Level Required Courses (21 hrs)

CET 3198C	Digital Systems	3 hrs
CET 3503	Microcomputer Technology I	3 hrs
CET 4134C	Microprocessor Electronics II	3 hrs
EET 3716	Network Analysis	3 hrs
EET 4158C	Linear Integrated Circuits	3 hrs
EET 4548	Power Systems	3 hrs
EET 4732C	Feedback Control Systems	3 hrs

5. Upper Level Technical Electives (3 hrs)

Select three hours from the following:		
CET 3144C	Applied Microprocessor Technology	3 hrs
CET 4138	Digital Programmable Devices	3 hrs
CET 4333	Computer Organization & Design	3 hrs
EET 4329C	Communication Systems	3 hrs
EET 4359C	Digital Communications	4 hrs

6. Departmental Exit Requirement (3 hrs)

ETG 4950C	Senior Design Project	3 hrs
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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

Articulated A.S. To B.S. Programs

- 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 hours**

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.

GENERAL BUSINESS (B.S.B.A.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. in business administration from a Florida public community college)

College of Business Administration

BA 240, 407-823-2184

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

Faculty Advisor: B. Moore, BA 325, 407-823-5256

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
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundation

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
MAC 2233	Concepts of Calculus
STA 2023	Statistical Methods
CGS 2100C	Computer Fundamentals for Business

3. Required for All Business Majors

(30 hrs)

First Semester in the College of Business Administration:

GEB 3031	Cornerstone	6 hrs
GEB 3356	Introduction to International Business	3 hrs

First or subsequent semesters depending on major:

BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs

Last Semester:

MAN 4720	Strategic Management	3 hrs
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4. Special college and/or department requirements:

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major
- Students not in attendance at the first class meeting of any College of Business course may be dropped from the course.
- 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.

5. Second Level Core (5 courses):

Students must take one course from each of the following areas: Accounting (must take ACG 3101), Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:

Accounting	ACG 3101	Intermediate Accounting I
Economics	ECP 4703	Managerial Economics
Finance	FIN 3303	Financial Markets
	FIN 3414	Intermediate Corporate Finance
	FIN 3504	Investment Analysis
Management	MAN 4240	Organizations: Theory and Behavior
	MAN 3301	Management of Human Resources
Marketing	MAR 4156	International Marketing
	MAR 4841	Service Marketing
	MAR 3613	Marketing Research and Analysis
	MAR 3403	Sales Force Management

6. 4000 Level Requirement:

At least two of the second level courses must be at the 4000 level.

7. A.S. Transfer Classes

Twelve credit hours taken under the A.S. to B.S. agreement will be counted toward the degree.

8. Foreign Language Requirements

(0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:

none

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives***

(variable)

Must be outside the College of Business

Total Semester Hours Required

132 hours

Community 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 computer fundamentals for business class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.

Articulated A.S. To B.S. Programs

- 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
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- 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.

***General electives as required to reach 132 semester hours to include at least 66 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 66 hours outside Business Administration.

HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

Rosen School of Hospitality Management
Classroom Building I, Suite 302 407-823-2188
<http://www.hospitality.ucf.edu>
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Admission Requirements

Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements

1. UCF General Education Program (GEP) (18 hrs)
 Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
 - A. Communication Foundations
 - B. Cultural and Historical Foundations
 - C. Mathematical Foundations
 - D. Social Foundations
 - E. Science Foundation

2. Common Program Prerequisites

Completed as part of the approved A.S. program.

3. Hospitality Management Core (24 hrs)

HFT 3540	Guest Services Management	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 4295	Strategic Mgmt in Hospitality Industry	3 hrs
HFT 3700	Tourism Management	3 hrs
HFT 3261	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park and Attraction Mgmt	3 hrs
HFT XXXX	Practicum II	1 hr
HFT 4941	Practicum III	1 hr
HFT 3933	Distinguished Lectures in Hosp. Mgt.	1 hr

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 (18 hrs)

Students must take 18 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the six specialized career tracks as outlined below.

A. Generalist Track (18 hrs)

Choose six advanced courses from the following list:		
HFT 3313	Hospitality Physical Plant Management	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs
HFT 4298	Hospitality Business Consulting	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 3785	Management of Gaming Enterprises	3 hrs
HFT 3807	Multi-Unit Food Service Organizations	3 hrs
HUN 3013	Nutrition Concepts & Issues in Food Svc	3 hrs
HFT 4861	Beverage Management	3 hrs
FSS 3124	Supply and Procurement Management	3 hrs
FSS 4135	Corporate Contract & Managed Services Orgs	3 hrs
FSS 3232C	Intermediate Techniques of Food Production	3 hrs
FSS 4286C	Catering and Banquet Organization	3 hrs
HFT 4753	Convention & Conference Services	3 hrs
HFT 4754	Exhibit & Trade Show Operations	3 hrs
HFT 4735	Tourism Geography	3 hrs
HFT 4722	Travel Agency Management	3 hrs
HFT 4762	Current Practices in the Airline Industry	3 hrs
HFT 4275	Vacation Ownership Resort Development	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 3741	Meeting Management	3 hrs
HFT 3757	Event Management	3 hrs
HFT 4266	Restaurant Brand Management	3 hrs
HFT 4268	Case Studies in Multi-Unit Restaurant Management	3 hrs
HFT 4844	Sanitation Mgt in Foodservice Industry	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 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 4269	Case Studies in Multi-Unit Restaurant Mgmt	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs
HFT 4XXX	Hospitality Communications	3 hrs
HFT 4XXX	Hotel Operations	3 hrs
FSS 3003	Culture and Cuisine	3 hrs
HFT 3784	Amusement Technology	3 hrs
HFT 3802	Catering Management	3 hrs
HFT 3770	Cruise Line Operations and Management	3 hrs
HFT 3574	Food Service Marketing Advertising and Promotion Management	3 hrs
HFT 3654	Franchising in the Restaurant Management	3 hrs
HFT 3XXX	Law and Restraunt Management	3 hrs
HFT 3374	Multi Media Applications in Exhibitions	3 hrs
HFT 3834	Topics in Restraunt and Foodservice Mgt	3 hrs
HFT 4375	Advanced Trade Show Management	3 hrs
HFT 4864	Anheuser Busch Seminar in Quality Brewing and Fine Beer	3 hrs
HFT 4XXX	Contemporary Issues in Lodging Operations	3 hrs
HFT 4425	Financial Analysis for Restraunt Managers	3 hrs
HFT 4786	Managing the Guest Experience in Theme Park and Attractions	3 hrs
HFT 4787	Operational Issues in the Theme Park and Attraction Industry	3 hrs
HFT 4281	Resraunt Leadership Strategies and Tactics	3 hrs
HFT 4645	Resraunt Real Estate, Site Selection and Modeling	3 hrs
HFT 4277	Yacht, Country, and City Club Management	3 hrs
B. Convention/Conference Management Track (18 hrs)		
HFT 4753	Convention and Conferences Services	3 hrs
HFT 4754	Exhibit and Trade Show Operations	3 hrs
HFT 3802	Catering Management	3 hrs
HFT 3741	Meeting Management	3 hrs
HFT 3757	Event Management	3 hrs
C. Food Service and Restaurant Operations Management Track (18 hrs)		
HFT 3807	Multi-Unit Food Service Organizations	3 hrs
HFT 4266	Restaurant Brand Management	3 hrs
HFT 4844	Sanitation Mgt in Foodservice Industry	3 hrs
HFT 4861	Beverage Management	3 hrs
FSS 3124	Supply and Procurement Management	3 hrs
Plus one course from the following list:		
FSS 4135	Corporate Contract & Managed Services Orgs	3 hrs

Articulated A.S. To B.S. Programs

FSS 3232C	Intermediate Techniques of Food Production
FSS 4286C	Catering and Banquet Organization
HUN 3013	Nutrition Concepts & Issues in Food Svc
HFT 4343	Hospitality Facilities Planning & Design
HFT 4269	Case Studies in Multi-Unit Restaurant Management

D. Vacation Ownership Resort Management Track	(18 hrs)
HFT 4275	Vacation Ownership Resort Development 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
HFT 4462	Hospitality Financial Management 3 hrs

E. Theme Park and Attraction Management Track	(18 hrs)
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 3757	Event Management 3 hrs

F. Tourism Management Track	(18 hrs)
HFT 4735	Tourism Geography 3 hrs
HFT 4722	Travel Agency Management 3 hrs
HFT 4762	Current Practices in the Airline Industry 3 hrs
HFT 4754	Exhibit & Trade Show Operations 3 hrs
HFT 3757	Event Management 3 hrs
Plus one course from the Generalist Track (A) 3 hrs	

G. Lodging Management Track	(18 hrs)
HFT 3313	Hospitality Physical Plant Management 3 hrs
HFT 4343	Hospitality Facilities Planning & Design 3 hrs
HFT 4473	Hotel Development Analysis 3 hrs
HFT 4753	Convention & Conference Services 3 hrs
HFT 4462	Hospitality Financial Management 3 hrs
HFT 4XXX	Contemporary Issues in Lodging Operations 3 hrs

H. Hospitality Financial Management and Technology	
HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems 3 hrs
HFT 4462	Hospitality Industry Finance 3 hrs
HFT 4473	Hotel Development Analysis 3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls 3 hrs
HFT 4432	Hospitality Industry Auditing 3 hrs
HFT 4413	Technology Applications for Management Decision Making 3 hrs

6. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

8. Electives (variable)

9. Cooperative Education 0 hrs

800 hours of supervised work experience

Total Semester Hours Required 124 hours

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 School of Hospitality Management.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.
- The department may allow substitutions for Hospitality classes taken at the community college. Students should check with the Hospitality Management Department for approval of substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science Engineering Technology (ENT) Department ENGR 207

Coordinator: Bahman Motlagh
407-823-4748 Fax: 407-823-4746
<http://www.ent.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 faculty 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.

1. UCF General Education Program (36 hrs)

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
(completed in AS degree program)	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Engineering Technology Core Courses (26 hrs)

ETI 3651C	Computer Applications	3 hrs
CET 3010	Intro to Info Technology	3 hrs
STA 2023	Statistical Methods I	3 hrs
ETI 4448	Applied Proj Mgmt	3 hrs
ENC 3241	Writing for the Technical Professional	3 hrs
EET 3085C	Electricity & Electronics	4 hrs
CET 3323C	Digital Technology	4 hrs
CET 2364	Systems Applications in C	3 hrs

3. Lower Level Required Courses Taken at Community College (33 hrs)

4. Required Technical Courses (21 hrs)

CET 4427	Applied Database I	3 hrs
CET 3383	Applied Systems Analysis I	3 hrs
CET 4505	Applied Operating Systems I	3 hrs
CET 3752	Intro to Telephony	3 hrs
CET 4483	Intro to Local Area Network	3 hrs
CET 4333	Computer Organization & Design	3 hrs
CET 4748	Wide Area Networks I	3 hrs

5. Technical Electives (12 hrs)

Choose four from the following:		
CET 3198C	Digital Systems	3 hrs
CET 4138	Digital Programmable Devices	3 hrs
CET 4931	Current Topics in Technology	3 hrs
CET 4749	Wide Area Network II	3 hrs

Articulated A.S. To B.S. Programs

MAP 3401	Problem Analysis	3 hrs
CET 4523	Applied Systems Analysis II	3 hrs
CET 4429	Applied Database II	3 hrs
CET 4583	Web Base Systems I	3 hrs
CET 4584	Web Base Systems II	3 hrs
CET 4663	Computer & Networks Security	3 hrs
STA 5937	Data Mining I	3 hrs

Senior Year			
Fall		15 hrs	Spring
CET 4505 Appl Oper Sys I	3		Tech Elective
CET 4427 Appl Database I	3		CET 4483 Intro to Local Area Net
CET 3752 Intro to Telephony	3		STA 2023 Statistical Methods I
ETI 3651C Comp Appl	3		CET 4748 Wide Area Networks I
Tech Elective	3		Tech Elective

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 hours

Related Programs: none

Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

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 students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year			
Fall		15 hrs	Spring
Humanities	3		CET 3383 Appl Sys Anal I
Social Science	3		PSC/PHY XXXX
CET 3010 Intro to Info Tech	3		Hum Elective
CET 2364 Systems Apps in C	3		CET 3323C Digital Tech
Bio Science	3		
Summer		9 hrs	
CET 4333 Comp Org & Design	3		
ENC 3241 Tech Rept Writing	3		
ETI 4448 Applied Proj Mgmt	3		

PHOTOGRAPHY (B.S.)

A.S to B.S TRACK

College of Arts and Sciences

E-mail: santana@ucf.edu

Coordinator: Dr. M.C. Santana, 407-823-2838

Admission Requirements

Completion of an A.S. in Photography from Daytona Beach Community College or equivalent coursework.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with the Photography program coordinator before selecting this major, and at least annually thereafter.
- Upper-division electives, internship credit, and course substitutions must be approved by the program coordinator.
- Students must earn at least a "C-" in each required course and maintain an overall GPA of at least 2.0

Degree Requirements

1. UCF General Education Program (36 hrs)

Students who have not satisfied General Education Requirements before transferring will complete the remaining courses at UCF. The specific courses will depend on the general education courses completed as part of the articulated A.S., and will come from the following areas:

A. Communication Foundations		
ENC 1101 Composition I		AS
ENC 1102 Composition II	3 hrs	
SPC 2600* Speech		AS
B. Cultural and Historical Foundations		
A year sequence in AMH, EUH, HUM, or WOH	6 hrs	
ARH 1000* Art Appreciation		AS
(Students may substitute ARH 2005 or ARH 2050)		
C. Mathematical Foundations		
MAC 1105 College Algebra		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 1000*	Art Appreciation	AS
GRA 1741*	Design and Color Principles	AS
GRA 1800*	Computer Graphics Fundamentals	AS
PGY 1401*	Fundamentals of Photography	AS
PGY 3610C	Photojournalism I	BS

3. AS Required Courses: (49 hrs)

(Completed as in the A.S. degree program in Photography, 2002-2003 catalog. Students graduating under different catalogs may substitute equivalent courses)

CGS 1992	Introduction to Computer Applications	1 hr
GRA 1741	Design and Color Principles	4 hrs
GRA 1800	Computer Graphics Fundamentals	3 hrs
PGY 1115	Color Materials and Processes	6 hrs
PGY 1201	Introduction to the Studio	4 hrs
PGY 1265	Advanced Processes and Techniques	4 hrs
PGY 1401	Fundamentals of Photography	4 hrs
PGY 1402	Photographic Materials and Processes	4 hrs
PGY 2000C	History and Aesthetics of Photography	3 hrs
PGY 2107	Large Format Photography	4 hrs
PGY 2215	Studio Lighting	4 hrs

Articulated A.S. To B.S. Programs

PGY 2216	Location Photography	4 hrs
PGY 2990	Applied Photography	4 hrs

4. Upper Division Required Courses (36 hrs)

ARH 3710	History of Photography I	3 hrs
ARH 3711	History of Photography II	3 hrs
ARH 3820	Visual Arts Administration Vitas	3 hrs
COM 4014	Gender issues in Communication or	
COM 4461	Intercultural Communication	3 hrs
ENC 3250	Professional Writing	3 hrs
IDS 3687C	Digital Imagery	3 hrs
PGY 3610C	Photojournalism I	3 hrs
PGY 3640C	Photojournalism II	3 hrs
PGY 4420C	Advanced Photography	3 hrs
PGY 4420C	Advanced Photography (repeat for credit)	3 hrs
PGY 4440C	Special Problems in Photography	3 hrs
PGY 4941	Internship	3 hrs

5. Upper Division Restricted Electives (6 hrs)

Select from upper level courses, with program coordinator's approval. May be outside the department.

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 hours

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.
- 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 General Education and Common Program Prerequisites

- SPC 2600* May substitute SPC 1600 or SPC 1060
- ARH 1000* May substitute ARH 2005 or ARH 2050
- GRA 1741* May substitute GRA 2111C
- GRA 1800* May substitute GRA 2140C
- PGY 1401* May substitute PGY 2401

NURSING (B.S.N.)

A.S. TO B.S.N. TRACK

(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

College of Health and Public Affairs

HPA 220, 407-823-2744

Undergraduate Coordinator: Linda Hennig

E-mail: lindah@mail.ucf.edu

Web Address: <http://www.cohpa.ucf.edu/nursing/>

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 School of Nursing. All applicants must have:

- A minimum overall GPA of 2.5
- Completion of a Statewide Articulated A.S. 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
- Current RN License in the state of Florida or license eligible

Degree Requirements

- Completion of all common program prerequisite courses with at least a grade of "C" (2.0) or better
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida community college or other universities 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 are required for admission to, continuation in, and graduation from the Nursing Program
- UCF Residency Requirement: 32 hours

1. UCF General Education Program (18 hrs)

Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with 18 hours of General Education courses completed as part of the articulated A.S.

Student must complete all General Education and foreign language admissions requirements prior to NUR 4084. Students completing the General Education requirements at a Florida community college, must complete those courses prior to their last 30 hours at UCF.

2. Common Program Prerequisites (21 hrs)

PSY 2012	General Psychology**	GEP
SYG 2000	Sociology**	3 hrs
MCB 2005C	Health Microbiology	4 hrs
CHM 1032/L	General Chemistry and 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	Assesing Human Development or	3 hrs
or DEP 2004	Developmental Psychology	
HUN 3011	Human Nutrition	3 hrs

* May take Anatomy and Physiology sequence of six-eight total credits;

**Also meets General Education Requirements;

See a UCF Nursing advisor for possible course substitutions.

3. Core Requirements (55 hrs)

NUR 3809	Transitional Concepts in Nursing I	3 hrs
NUR 3065	Health Assessment	3 hrs
NUR 3165	Nursing Research/Critical Inquiry	3 hrs
NUR 4084	Transitional Concepts in Nursing II	3 hrs
NUR 4636	Community as Continuum of Care	3 hrs
NUR 4636L	Clin Prac in Comm-Oriented Nursing	2 hrs
NUR 4827	Leadership and Management Principles	3 hrs
NUR 4837	Health Care Issues, Policy, & Econ	3 hrs
NUR 4945L	Directed Nursing Practice	4 hrs
Validation Credit		28 hrs

4. Restricted Elective (3 hrs)

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NUR XXXX Any Nursing Elective 3 hrs

5. Departmental Exit Requirements
 Completion of all courses in major with a grade of "C" (2.0) or better

- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives **variable**

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 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

Total Semester Hours Required **128 hours**

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 3809:
 RN status or eligible to take NCLEX.

Prior to NUR 3165:
 Complete NUR 3809 and Statistics course with grade of "C" (2.0) or better.

Prior to NUR 4084 :
 Be admitted to the Nursing program
 Complete General Education requirements from a Florida state community college or university (SUS)
 Complete CLAST
 Complete foreign language admission requirement
 Validation exams or current professional work as RN or pass the NCLEX within the last two years

Prior to NUR 4636 and NUR 4636L:
 Complete NUR 4084

Prior to NUR 4945L:
 Complete NUR 4636 and NUR 4636L or as a co-requisite with NUR 4945L

RADIOLOGIC SCIENCES (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs

HPA2 210, 407-823-2747

Undergraduate Program Director: Thomas Edwards

E-mail: tedwards@mail.ucf.edu

Web Address: <http://www.cohpa.ucf.edu/health.pro/>

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) from each state or province of residence during the past 24 months 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). (No TSD credit may be used for prerequisite courses.)
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

Degree Requirements

- Students should consult with a departmental advisor
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF residency requirement for Radiography: 33 hours

1. UCF General Education Program

(21 hrs)

- | | |
|---|-------|
| A. Communication Foundations | 6 hrs |
| Select ENC 1102, SPC 1600 | |
| B. Cultural Historical Foundations | 6 hrs |
| C. Mathematical Foundations | 0 hrs |
| MAC 1105 (Completed at CC) | |
| STA 2023 (Core Requirement) | |
| D. Social Foundations | 3 hrs |
| Select ECO 2013 or ECO 2023 or POS 2041 | |
| E. Science Foundations | 6 hrs |
| Select PHY 2053C | |
| Select BSC 2010C | |

Note: PHY 2053L must be taken as a corequisite to PHY 2053C

2. Common Program Prerequisites

- | | | |
|-----------|----------------------------------|---------|
| CGS 1060C | Introduction to Computer Science | CC |
| PCB 3703C | Human Physiology* | CC |
| PHY 2053C | College Physics I | UCF GEP |
| PHY 2054C | College Physics II | UCF GEP |
| ZOO 3733C | Human Anatomy* | CC |
| MAC 1105 | College Algebra | CC |
- CC courses completed as part of the approved A.S. program GEP and core courses with the exception of PHY 2053C and 2054C.
- * See Transfer Notes

3. Core Requirements

(33 hrs)

- | | | |
|---------------------|--|-------|
| <i>Junior Level</i> | | |
| 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 3804 | Clinical Education I | 4 hrs |
| RTE 3513C | Radiographic Procedures II | 3 hrs |
| RTE 3457C | Principles of Radiographic Exposure II | 3 hrs |
| RTE 3684C | Physics of Image Production | 2 hrs |
| HSC 3640 | Health Law | 3 hrs |
| RTE 3308 | Medical Physics | 3 hrs |
| STA 2023 | Statistical Methods I | 3 hrs |
| HSC 4550 | Pathophysiological Mechanisms | 3 hrs |
| <i>Senior Level</i> | | |
| RTE 4563 | Special Radiographic Procedures | 2 hrs |
| RTE 4782 | Pathophysiology | 2 hrs |
| RTE 4814L | Clinical Education II | 5 hrs |
| RTE 4824L | Clinical Education III | 6 hrs |
| RTE 4573 | Advanced Imaging Modalities | 3 hrs |
| RTE 4834 | Clinical Education IV | 4 hrs |
| RTE 4385 | Radiobiology | 1 hr |
| RTE 4844 | Clinical Education V | 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 4854 | Advanced Clinical Practicum | 2 hrs |

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4. Upper Division Restricted Electives:

RTE 4209	Radiological Adm. Practice	2 hrs
RTE 4903	Directed Study Radiologic Education	2 hrs

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

5. Program Exit Requirements (124 hrs)

A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (124 hours)

The total hours required for the A.S. to B.S. articulated Radiologic Sciences degree shall be no more than 132 credit hours.

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration

Related Minors: Health Services Administration

Transfer Notes:

Credit by Examination - 23 credit hours of credit by exam for clinical education courses will be awarded to Registered Technologists certified by the American Registry of Radiologic Technologists (ARRT) 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. If competency is not successfully demonstrated, additional clinical coursework may be required. 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 or BSC 2093C and BSC 2094C)	8
College Algebra (MAC 1105)	3
College Physics I (PHY 2053C)	4
College Physics II (PHY 2054C)	4
Introduction to Computer Science (CGS 1060C) <i>or</i> any other Computer Science course	3

SPORTS AND FITNESS (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Education

Department of Teaching and Learning Principles

Coordinator: Debby Mitchell, 407-823-6598

E-mail: mitchell@mail.ucf.edu

http://pegasus.cc.ucf.edu/~sportfit/

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 2+2 program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST alternative criteria.
- Pass four parts of the CLAST examination.
- Complete prerequisite courses.

Degree Requirements

- Students should consult with an advisor on a regular basis.
- 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 annually 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 approval process of the organization with which they will be working.

1. UCF General Education Program

36 Hours

A. Communication Foundations (9 hrs)		
ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
SPC 1600	Fundamentals of Oral Comm	3 hrs
B. Cultural-Historical Foundations (9 hrs)		
AMH 2010	U.S. History 1492-1877	3 hrs
AMH 2020	U.S. History 1877-Present	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations (6 hrs)		
MGF 1106	Finite Mathematics	3 hrs
Select one:		
STA 1060C	Basic Stat using Microsoft Excel	3 hrs
STA 2014C	Principles of Statistics	3 hrs
D. Social Foundations (6 hrs)		
POS 2041	American National Government	3 hrs
PSY 2012	General Psychology	3 hrs
E. Science Foundations (6 hrs)		
PSC 1121	Physical Science	3 hrs
BSC 2010C	General Biology	4 hrs

2. Sports and Fitness Lower Division

(7 hrs)

PET 2622C	Human Injuries	3 hrs
ZOO 3736C	Exercise Physiology Anatomy	4 hrs

3. Lower Division Electives

(7 Hours)

Selected Electives (Prefixes: PEL, PEM, PEO, PET)

4. Physical Education Common Courses

(9 Hours)

PET 4312	Biomechanics	3 hrs
PET 4550	Fitness Assessment and Exercise	3 hrs
PET 4401	Administration & Evaluation	3 hrs

5. Fitness & Sports Core

(18 Hours)

PET 3137	Concepts and Practices in Sports and Fitness	3 hrs
PET 3493	Sports and Ethics	3 hrs
PET 3408	Public Relations in Sports and Fitness	3 hrs
PET 3462	Fiscal and Facilities Issues in Sports and Fitness	3 hrs

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PET 4491	Legal Issues in Sports and Fitness	3 hrs
PET 4215	Motivational Aspects of Athletic Performance	3 hrs

6. Specialization (12 Hours)

Select One:

Coaching		
PET 3765	Coaching Theory	3 hrs
PET 4763	Coaching Methods and Principles	3 hrs
<i>Coaching Specific (choose one)</i> (3 hrs)		
PEO 2624	Coaching Basketball	
PEO 3324	Coaching Volleyball	
PEO 3644	Coaching Football	
PET 4625	Human Injuries - Mechanisms and Prevention	3 hrs

Students selecting the Coaching Specialization must register and complete the State of Florida Coaching Certification Process or an equivalent professional certifying body.

Fitness

PET 3361	Nutrition for Sports and Fitness	3 hrs
PET 3776	Fitness and Conditioning Concepts	3 hrs
PET 4083C	Practical Fitness Training	3 hrs
PET 4625	Human Injuries - Mechanisms and Prevention	3 hrs

Students selecting the Fitness Specialization must register for a Professional Fitness Certification through the American Council on Exercise (ACE) or an equivalent professional certifying body.

7. Upper Division Elective (3 hours)

Approved by advisor

8. Sports & Fitness Practicums (18 Hours)

PET 4925	Sports and Fitness Practicum I	6 Hours
PET 4926	Sports and Fitness Practicum II	12 Hours

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.

9. Foreign Language (0-8 hours)

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. Exit Requirements

- A minimum overall GPA of 2.5 .
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event
- Successful completion of 18 hours of Practicum Experiences.

Total Semester Hours Required (120 hours)

COMMON COURSE NUMBERING SYSTEM

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) and are designed primarily for these and other advanced students. When approved for inclusion in an individual program of graduate study by a supervisory committee approved by the Office of Graduate Studies, selected 4000-4999 courses may serve the needs of individual graduate students.

5000-5999 Beginning graduate and advanced undergraduate level courses - open to graduate students and those seniors who receive approval of the appropriate Dean(s).

6000-6999 Courses 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.)

7000-7999 Doctoral-level courses.

Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by twenty-six participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for

Common Course Numbering System

Example of Course Identifier					
Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
SYG	1	0	1	0	
Sociology, General	Freshman level level at this institution	Entry-level General Sociology	Survey Course	Social Problems	No laboratory component in this course

that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "course equivalency profiles."

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 31 different post-secondary institutions. Each institution uses "SYG _010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-Level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which 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

State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

"When a student 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 common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces 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 award of credit may be limited to courses that are entered in the course numbering system. Credits so awarded shall satisfy institutional requirements on the same basis as credits awarded to native students."

Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

- A. Courses in the _900-_999 series (e.g., ART 2905)
- B. Internships, practica, clinical experiences, and study abroad courses
- C. Performance or studio courses in Art, Dance, Theatre, and Music
- D. Skills courses in Criminal Justice
- E. Graduate courses
- F. Courses not offered by the receiving institution

College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. David R. Dees in Academic Services, MH 210, Phone 407-823-2691 or the Florida Department of Education, K-16 Articulation, 401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested from (850) 488-6402 or SunCom 278-6402.

ALPHABETICAL LISTING OF PREFIXES

Prefix	Prefix Title	Prefix	Prefix Title
ABE	Agricultural and Biological Engineering	CHW	Chinese Literature (Writings)
ABT	Arabic in Translation and/or Translations Skills	CIS	Computer Science and Information Systems
ACG	Accounting: General	CJB	College Level Application in Criminal Justice
ACO	Accounting: Occupational/Technical Variable Paced	CJC	Corrections
ACR	HVACR: Heating/Ventilation/AC/Refrigeration: Tech/Trades	CJD	Criminal Justice Development
ADE	Adult Education	CJE	Law Enforcement
ADV	Advertising	CJJ	Juvenile Justice
AEB	Agricultural Economics and Business	CJK	Criminal Justice Basic Training (A.A.S or Vocational)
AEE	Agriculture and Extension Education	CJL	Law and Process
AER	Automotive Mechanics	CJT	Criminal Justice Technologies
AFA	Afro-American Studies	CLA	Classical and Ancient Studies
AFH	African History	CLP	Clinical Psychology
AFR	Aerospace Studies	CLT	Classical Literature in Translation
AFS	African Studies	CMC	Corporate Media Communication
AGE	Agricultural Engineering	CNT	Computer Networks
AGG	Agriculture- General	COA	Home Economics: Consumer Affairs
AGR	Agronomy	COE	Cooperative Education
AKA	Akan	COM	Communication
ALS	Agriculture and Life Sciences	COP	Computer Programming
AMH	American History	COS	Cosmetology
AML	American Literature	COT	Computing Theory
AMS	American Studies	CPO	Comparative Politics
AMT	Aviation Maintenance Technology	CPS	Comparative Policy Studies (Multinational)
ANG	Anthropology- Graduate	CPT	Cardiopulmonary Technology
ANS	Animal Science	CRW	Creative Writing
ANT	Anthropology	CSP	Cosmetology- Specialized
AOM	Agricultural Operations Management	CST	Comparative Studies
APA	Applied Accounting	CTE	Home Economics: Clothing and Textiles
APB	Applied Biology	CTS	Computer Technology and Skills
ARA	Arabic Language	CVT	Cardiovascular Technology
ARC	Architecture	CWR	Civil Water Resources
ARD	Architectural Design	CYP	Community Psychology
ARE	Art Education	CZE	Czech Language
ARH	Art History	CZW	Czech Literature (Writings)
ARR	Autobody Repair and Refinishing	DAA	Dance, Emphasis on Activity
ART	Art	DAE	Dance Education
ARV	"Art, Vocational"	DAN	Dance
ASC	Aviation Science: General	DAS	Dairy Science
ASG	Animal Science: General	DEA	Dental Assisting
ASH	Asian History	DEC	Marketing and Distributive Education
ASN	Asian Studies	DEH	Dental Hygiene
AST	Astronomy	DEM	Demography
ATE	Animal Science Technology	DEN	Dentistry
ATF	Aviation Technology: Flight	DEP	Developmental Psychology
ATT	Aviation Technology: Theory	DES	Dental Support
AVM	Aviation Management	DIE	Dietetics
AVS	Avionics	DIM	Diesel Mechanics
AYM	Aymara Language	DITE	Dental Laboratory Technology
BAN	Commercial Banking (AIB Courses Only)	DUT	Dutch Language
BCA	Building Construction Apprenticeships	EAB	Experimental Analysis of Behavior
BCC	Basic Clinical Clerkships (Required)	EAP	English for Academic Purposes
BCH	Biochemistry (Biophysics)	EAS	Aerospace Engineering
BCN	Building Construction	ECH	Engineering: Chemical
BCT	Building Construction Trades	ECM	Engineering: Computer Math
BCV	Building Construction: Vocational	ECO	Economics
BME	Biomedical Engineering	ECP	Economic Problems & Policy
BMS	Basic Medical Sciences	ECS	Economic Systems & Development
BOT	Botany	EDA	Educational Administration
BRC	Banking Related courses (not AIB or IFE)	EDE	Education: Elementary
BSC	Biological Sciences	EDF	Education: Foundations and Policy Studies
BTE	Business Teacher Education	EDG	Education: General
BUL	Business Law	EDH	Education: Higher
CAP	Computer Applications (for Computer Scientists)	EDM	Education: Middle School
CAS	Clinical Audiology and Speech Language Pathology	EDP	Educational Psychology
CAT	CAT	EDS	Education Supervision
CBH	Comparative Psychology and Animal Behavior	EEC	Education: Early Childhood
CCE	Civil Construction Engineering	EED	Education: Emotional Disorders
CCJ	Criminology and Criminal Justice	EEL	Engineering: Electrical
CDA	Computer Design/Architecture	EER	Electrical/Electronics Repair
CEG	Civil Geotechnical Engineering	EES	Environmental Engineering Science
CEN	Computer Engineering	EET	Electronic Engineering Technology
CES	Civil Engineering Structures	EEV	Electrical/Electronic: Vocational
CET	Computer Engineering Technology	EEX	Education: Exceptional Child- Core Competencies
CGN	Civil Engineering	EGC	Counselor Education
CGS	Computer General Studies	EGI	Education: Gifted
CHD	Home Economics: Child Development	EGM	Engineering Science
CHI	Chinese	EGN	Engineering: General
CHM	Chemistry	EGS	Engineering: Support
CHR	Chiropractic	EHD	Education: Hard of Hearing & Deaf
CHS	Chemistry- Specialized	EIA	Education: Industrial Arts
CHT	Chinese Literature in Translation	EIN	Industrial Engineering

Alphabetical Listing Of Prefixes

Prefix	Prefix Title	Prefix	Prefix Title
EIV	Education: Industrial/Vocational	HEV	Home Economics- Vocational
ELD	Education: Specific Learning Disabilities	HFT	Hospitality Management
ELR	Electrical Laboratories and Related Areas	HHD	Housing & Home Design
EMA	Materials Engineering	HIM	Health Information Management
EMC	Engineering: Mechanical & Chemical	HIS	General History and Histrography
EME	Education: Technology and Media	HLP	Health, Leisure, and Physical Education
EML	Engineering: Mechanical	HME	Home Economics: Home Management and Equipment
EMR	Education: Mental Retardation	HMV	Hospitality Management, Vocational
EMS	Emergency Medical Services	HMW	Modern Hebrew Literature (Writings)
ENC	English Composition	HOE	Home Economics: General
ENG	English- General	HOS	Horticultural Sciences
ENL	English Literature	HRD	Human Resources Development
ENS	English for Non-Native Speakers (College-Level Courses)	HSA	Health Services Administration
ENU	Engineering: Nuclear	HSC	Health Sciences
ENV	Engineering: Environmental	HUM	Humanities
ENY	Entomology	HUN	Human Nutrition
EOC	Ocean Engineering	HUS	Human Services
EPH	Education: Physical & Multiple Handicapped	ICM	International Construction Management
ESC	Earth Science	ICW	Icelandic Literature
ESE	Education: Secondary	IDH	Interdisciplinary Honors
ESI	Industrial/Systems Engineering	IDS	Interdisciplinary Studies
ESL	College- Preparatory English for Non-Native Speakers	IEA	Industrial Education Applied
EST	Electronic Specialty Technology	IHS	Interdisciplinary Health Sciences
ETC	Engineering Technology: Civil	IND	Interior Design
ETD	Engineering Technology: Drafting	INP	Industrial and Applied Psychology
ETG	Engineering Technology: General	INR	International Relations
ET I	Engineering Technology: Industrial	IPM	Integrated Pest Management
ETM	Engineering Technology: Mechanical	ISC	Interdisciplinary Sciences
ETN	Electroencephalographic Technology	ISM	Information Systems Management
EUH	European History	ISS	Interdisciplinary Social Sciences
EUS	European Studies	ITA	Italian Language
EVI	Education: Visually Impaired- Blind	ITTI	talian Literature in Translation
EVR	Environmental Studies	ITW	Italian Literature (Writings)
EVS	Environmental Science	JOU	Journalism
EVT	Education: Vocational/Technical	JPN	Japanese
EXP	Experimental Psychology	JPT	Japanese Literature in Translation
FAD	Home Economics: Family Development	JPW	Japanese Literature (Writings)
FAM	Fashion Modeling	JST	Jewish/Judaic Studies
FAS	Fishery & Aquacultural Science	KOR	Korean Language and Literature
FES	Fire and Emergency Services	LAA	Landscape Architecture
FFP	Fire Fighting & Protection	LAE	Language Arts and English Education
FIL	Film	LAH	Latin American History
FIN	Finance	LAS	Latin American Studies
FLE	Foreign Language Education	LAT	Latin (Language Study)
FNR	Forestry & Natural Resources	LAW	Law
FOL	Foreign and Biblical Languages	LBS	Labor Studies
FOR	Forestry	LEI	Leisure
FOS	Food Science	LIN	Linguistics
FOT	Foreign and Biblical Languages (in Translation)	LIS	Library and Information Studies
FOW	For and Bibl Lang, Comparative Lit (Writings)	LIT	Literature
FRC	Fruit Crops	LNW	Latin Literature (Writings)
FRE	French Language	MAA	Mathematics- Analysis
FRT	French in Translation and/or Translation Skills	MAC	Mathematics- Calculus and Pre-calculus
FRW	French Literature (Writings)	MAD	Mathematics- Discrete
FSE	Funeral Services	MAE	Mathematics Education
FSS	Food Service Systems	MAG	Mechanized Agriculture
FYC	Family, Youth, and Community	MAN	Management
GCO	Golf Course Operations	MAP	Mathematics Applied
GEA	Geography: Regional Areas	MAR	Marketing
GEB	General Business	MAS	Mathematics- Algebraic Structures
GEO	Geography: Systematic	MAT	Mathematics
GER	German	MCB	Microbiology
GET	German Literature in Translation	MCC	Special Topics in Mass Communication
GEW	German Literature (Writings)	MDW	Midwifery
GEY	Gerontology	MEA	Medical Assisting Technology
GFD	Geophysical Fluid Dynamics	MEL	Medical Science Electives
GLS	Graduate Liberal Studies	MER	Mental Retardation
GLY	Geology	MET	Meteorology
GMS	Graduate Medical Sciences	MGF	Mathematics- General and Finite
GMT	Modern Greek Literature in Translation	MGR	Primary Care of Older Adults
GMW	Modern Greek Literature (Writings)	MHF	Mathematics- History and Foundations
GRA	Graphic Arts	MHS	Mental Health Services
GRE	Classical Greek (Language Study)	MIS	Military Science
GRK	Modern Greek Language	MKA	Marketing Applications
GRW	Classical Greek Literature (Writings)	MLS	Medical Laboratory Science
HAI	Haitian Creole Language	MLT	Medical Laboratory Technology
HBR	Modern Hebrew Language	MMC	Mass Media Communication
HBT	Modern Hebrew in Translation	MNA	Management: Applied
HCA	Health Care Administration	MOB	Molecular Biophysics
HCP	Health-Care Providers (Assistants)	MOM	Motorcycle Mechanics
HEB	Ancient Hebrew	MRE	Medical Records
HEC	Home Economics/Community	MSS	Massage
HEE	Home Economics Education	MTB	Mathematics- Technical and Business

Alphabetical Listing Of Prefixes

MTE	Marine Technology and Nautical Science	PLA	Paralegal/ Legal Assistant/ Legal Administration
MTG	Mathematics- Topology and Geometry	PLP	Plant Pathology
MHF	Mathematics- History and Foundations	PLS	Plant Science
MHS	Mental Health Services	PLT	Polish in Translation and/or Translation Skills
MIS	Military Science	PLW	Polish Literature
MKA	Marketing Applications	PMA	Pest Management
MLS	Medical Laboratory Science	PMT	Precision Metals Technology
MLT	Medical Laboratory Technology	POL	Polish Language
MMC	Mass Media Communication	POR	Portuguese Language
MNA	Management: Applied	POS	Political Science
MOB	Molecular Biophysics	POT	Political Theory
MOM	Motorcycle Mechanics	POW	Portuguese Literature (Writings)
MRE	Medical Records	PPE	Personality
MSS	Massage	PRN	Practical Nursing
MTB	Mathematics- Technical and Business	PRO	Prosthetics/Orthotics
MTE	Marine Technology and Nautical Science	PRT	Portuguese in Translation
MTG	Mathematics- Topology and Geometry	PSB	Psychobiology
MTS	Medical Transcription Science	PSC	Physical Sciences
MUC	Music: Composition	PSE	Poultry Science
MUE	Music Education	PSY	Psychology
MUG	Music: Conducting	PTN	Pharmacy Technician
MUH	Music: History/Musicology	PUP	Public Policy
MUL	Music Literature	PUR	Public Relations
MUM	Music: Commercial/Management/Administration	QMB	Quantitative Methods in Business
MUN	Music Ensembles	RAT	Radiation Therapy
MUO	Music: Opera/Musical Theatre	RCS	Rehabilitation Counseling Services
MUR	Music: Church	REA	Reading
MUS	Music	RED	Reading Education
MUT	Music: Theory	REE	Real Estate
MUY	Music: Therapy	REL	Religion
MVB	Applied Music: Brasses	RET	Respiratory Care
MVH	Historical Instruments	RHT	Radiation Health/ Radiation Protection Technology
MVJ	Applied Music: Jazz	RMI	Risk Management & Technology
MVK	Applied Music: Keyboard	ROT	Reactor Operator Technology
MVO	Applied Music: Other	RSD	Rehabilitation Science Doctorate
MVP	Applied Music: Percussion	RTE	Radiologic Technology
MVS	Applied Music: Strings	RTT	Radio/Television Technology
MVV	Applied Music: Voice	RTV	Radio-Television
MVW	Applied Music: Woodwinds	RUS	Russian Language
NEM	Nematology	RUT	Russian Literature in Translation
NGR	Nursing, Graduate	RUW	Russian Literature (Writings)
NMT	Nuclear Medicine Technology	SAL	South Asian Languages
NSC	Naval Science	SBM	Small Business Mgmt: Occupational/Technical Variable Paced
NUR	Nursing, Generic Undergraduate	SCA	Scandinavian Literature
OCA	Office Computer Applications	SCE	Science Education
OCB	Biological Oceanography	SCT	Scandinavian Literature in Translation
OCC	Chemical Oceanography	SCW	Serbo-Croatian Literature (Writing)
OCE	General Oceanography	SDS	Student Development Services
OCG	Geological Oceanography	SEC	Serbo-Croatian Language
OCP	Physical Oceanography	SED	Speech Education
OFT	Office Technology (Occupational/Variable Paced)	SER	Small Engine Mechanics
OPT	Ophthalmic Technology/Vision Care	SHO	Shona Language
ORH	Ornamental Horticulture	SLA	Second Language Acquisition/ Instructional Technology
ORI	Oral Interpretation	SLL	Slavic Languages
ORV	Ornamental Horticulture (Variable Paced)	SLS	Student Life Skills (Learning)
OSE	Optical Science and Engineering	SLW	Slavic Literature (Writings)
OST	Office Systems Technology	SNW	Scandinavian Literature
OTA	Office Technology Applications	SON	Sonography
OTH	Occupational Therapy	SOP	Social Psychology
PAD	Public Administration	SOS	Soil Science
PAF	Public Affairs	SOW	Social Work
PAS	Physician Assistant	SPA	Speech Pathology and Audiology
PAX	Peace Studies	SPC	Speech Communication
PAZ	Parks and Zoos	SPN	Spanish Language
PCB	Process Biology (Cell/Molecular/Ecology/Genetics/Physiology)	SPS	School Psychology
PCO	Psychology for Counseling	SPT	Spanish Literature in Translation and/or Translation Skills
PEL	Phys. Edu. Acts- (Gen.)- Object Centered, Land	SPW	Spanish Literature (Writings)
PEM	Phys. Edu. Acts. (Gen)- Perform. Centered, Land	SSA	Sub-Saharan African Languages
PEN	Physical Edu. Activities (Gen)- Water, Snow, Ice	SSE	Social Studies Education
PEO	Phys. Edu. Acts (Profnl.)- Object Centered, Land	SST	Sub-Saharan African Literature in Translation
PEP	Phys. Edu. Acts (Profnl.)- Perform. Centered, Land	STA	Statistics
PEQ	Phys. Edu. Acts (Profnl.)- Water, Snow, Ice	STS	Surgical Technology Studies
PET	Physical Education Therapy	SUR	Surveying & Related Areas
PGY	Photography	SVL	Savings and Loan (IFE Courses only)
PHA	Pharmacy	SWA	Swahili Language
PHC	Public Health Concentration	SWT	Swahili Literature in Translation
PHH	Philosophy, History of	SYA	Sociological Analysis
PHI	Philosophy	SYD	Sociology of Demography/Area Studies/ Sociological Minorities
PHM	Philosophy of Man and Society	SYG	Sociology, General
PHP	Philosophers and Schools	SYO	Social Organization
PHT	Physical Therapy	SYP	Social Processes
PHY	Physics	TAR	Technical Architecture
PHZ	Physics (Continued)	TAX	Taxation
PKG	Packaging Sciences		

Alphabetical Listing Of Prefixes

TDR	Technical Drafting
THE	Theatre Studies and General Resources
TPA	Theatre Production and Administration
TPP	Theatre Performance and Performance Training
TRA	Transportation and Logistics
TSL	Teaching English as a Second Language
TTE	Transportation Engineering
URP	Urban and Regional Planning
URS	Urban and Regional Studies
VAR	Variable-Paced Architecture
VEC	Vegetable Crops
VEM	Veterinary Medicine Professional
VIC	Visual Communication
VME	Veterinary Medicine Graduate
VPI	Vocational Preparatory Instruction
WCL	Ward Clerk
WDS	Weed Science
WIS	Wildlife Science
WOH	World History
WST	Women's Studies
YOR	Yoruba Language
YOT	Yoruba Literature in Translation
YRW	Yoruba Literature (Writings)
ZOO	Zoology

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.

	Undergraduates	Special Grad ¹
Directed Independent Studies	1906, 2905, 3905, 4906, 5907	5907
Directed Independent Research	4912, 5917	5917
Special Topics/Seminars	1931, 2930, 3930, 4932, 5937	5937
*Internships, Practicums, Clinical Prac	3940, 4941	59442
Cooperative Education ²	1949, 2949, 3949, 4949	5949
Honors Undergraduate Thesis	3970, 4970	
Honors Directed Reading ¹	4903	
Honors Directed Reading ²	4904	
Study Abroad	5957	

*These courses may be assigned variable credit. Some may be repeated upon approval.

¹The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.

²Enrollment is limited to those students who are fully admitted to the Graduate Program.

³Enrollment is limited to those students who are admitted into the Co-op program.

Dual Usage of Credit Hours

With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should contact their advisor or college for specific program requirements or additional information.

UCF Course Description Legend

PR: (Prerequisite) A course in which credit must be earned prior to enrollment in the listed course.

CR: (Corequisite) A course that must be taken concurrently with, or prior to, the listed course.

CI: (Consent of the Instructor)

Hours Code

Each course listed is followed by a code that shows hours of credit and contact hours.

Example: **ENV 4121C ECS-CEE 3(2,3)**

ENV 4121C is offered by the College of Engineering and Computer Science (ECS), in the Civil and Environmental Engineering (CEE)

Department, carries 3 hours of credit but requires 5 contact hours which consist of 2 hours in class and 3 hours laboratory or field work.

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 AS = Arts & Sciences, BA = Business Administration, ED = Education, ECS = Engineering and Computer Science, HM = Hospitality Management, and HPA = Health and Public Affairs. Department indicators are listed below (by college):

College/ School	Department	Abbreviation
AS	African American Studies	AAS
AS	Art	ART
AS	Arts & Sciences	CAS
AS	Biology	BIOL
AS	Chemistry	CHEM
AS	Communication	COMM
AS	Digital Media	DIG
AS	English	ENG
AS	Film	FILM
AS	Foreign Languages	LANG
AS	History	HIST
AS	Judaic Studies	JUD
AS	Liberal Studies	LS
AS	Mathematics	MATH
AS	Music	MUSIC
AS	OASIS	OASIS
AS	Philosophy	PHIL
AS	Physics	PHYS
AS	Political Science	POLS
AS	Psychology	PSYCH
AS	Radio/TV	R/TV
AS	Sociology & Anthropology	SOC/AN
AS	Statistics	STAT
AS	Theatre	THEA
AS	Women's Studies	WOM
BA	Accounting	ACCT
BA	Business	BUS
BA	Economics	ECON
BA	Finance	FIN
BA	Management	MAN
BA	Management Information System	MIS
BA	Marketing	MAR
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	Molecular & Microbiology	M&M
HPA	Nursing	NURS
HPA	Public Administration	PUB
HPA	Social Work	SOW

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://connect.ucf.edu> for those courses offered each semester/term.

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.

ACG 2021H BA-ACCT 3(3,0)
Honors Principles of Financial Accounting: PR: MAC 1105, participation in the honors program. Same as ACG 2021 with honors level content.

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.

ACG 3101 BA-ACCT 3(3,1)
Intermediate Financial Accounting I: PR: Junior standing and MAC 1105, ECO 2013 and ECO 2023; and ACG 2071 or its equivalent with a grade of "C" in the accounting course. Review of the accounting cycle, financial statement preparation and the framework of accounting theory. An in-depth study of current assets, fixed assets, and intangible assets.

ACG 3111 BA-ACCT 3(3,0)
Intermediate Financial Accounting II: PR: ACG 3101 with a grade of "C" or better. Accounting theory and practice for current and long-term liabilities, stockholders' equity earning per share, investments, revenue recognition, and selected current topics.

ACG 3131 BA-ACCT 3(3,0)
Financial Accounting Concepts and Analysis: PR: Junior Standing 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.

ACG 3141 BA-ACCT 3(3,0)
Intermediate Financial Accounting: PR: ACG 3XXX (Financial Accounting Concepts and Analysis) with a grade of "C" (2.0) or better. Accounting theory and practice related to preparation, and interpretation of external financial statements.

ACG 3301 BA-ACCT 3(3,0)
Management Accounting: PR: C.I. and Junior standing. To thoroughly familiarize the student with the various uses of accounting information for planning and control.

ACG 3361 BA-ACCT 3(3,0)
Cost Accounting I: PR: Junior standing, 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.

ACG 3501 BA-ACCT 3(3,0)
Financial Accounting for Governmental and Nonprofit Organizations: PR: 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.

ACG 4252 BA-FIN 3(3,0)
International Financial and Managerial Accounting: PR: ACG 2021, ACG 2071. An examination of environmental factors affecting international accounting standards and multinational corporate operations. Not open to accounting majors.

ACG 4401 BA-ACCT 3(3,1)
Accounting Information Systems: PR: ACG 3101 and CGS 2100C, with a grade of "C" or better. An introduction to manual and computer-based accounting information systems.

ACG 4651 BA-ACCT 3(3,0)
Auditing: PR: ACG 3111 and ACG 4401 with a grade of "C" or better. The standards, practices, and procedures followed in the audit function.

ACG 4671 BA-ACCT 3(3,0)
Internal Auditing: PR: ACG 3XXX (Financial Accounting Concepts & Analysis) or ACG 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control.

ACG 5005 BA-ACCT 1.5(1.5,0)
Accounting Foundations: PR: Acceptance to Graduate Study. Accounting and reporting from an investment and managerial decision making perspective.

ACG 5205 BA-ACCT 3(3,0)
Advanced Financial Accounting Topics: PR: ACG 3111 with a grade of "C" or better. Accounting for business combinations and the preparation of consolidated financial statements. Accounting issues related to foreign operations. Also includes a study of current reporting topics.

ACG 5206 BA-ACCT 3(3,0)
Seminar in Financial Reporting: PR: Acceptance for graduate study and all accounting foundation courses. An in-depth study of advanced financial reports.

ACG 5346 BA-ACCT 3(3,0)
Advanced Managerial Accounting: PR: ACG 3361 with a grade of "C" or better and ECO 3411. Advanced and current techniques for generation and use of accounting information in managerial decision-making.

ACG 5405 BA-ACCT 3(3,0)
Advanced Accounting Information Systems: PR: ACG 4401. Design, analysis and evaluation of accounting information systems.

ACG 5506 BA-ACCT 3(3,0)
Accounting for Governmental and Non-business Organizations: PR: ACG 3501, ACG 3111 and acceptance for graduate study. Study of problems and methods of applying managerial accounting concepts in a nonprofit environment.

ACG 5517 BA-ACCT 3(3,0)
Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: ACG 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations.

ACG 5625 BA-ACCT 3(3,0)
Auditing and EDP: PR: Acceptance for graduate study, ACG 3111, ACG 4401, and ACG 4651. An examination of auditing procedures followed when a company uses a computer to process financial records.

ADE 4382 ED-TLP 3(3,0)
Teaching Adult Learners: Effective teaching techniques including technology, distance instruction, and support systems appropriate to the special needs of adult learners.

ADV 3000 AS-COMM 3(3,0)
Principles of Advertising: Overview of the field of advertising: purposes, techniques, the role of agencies, advertisers and the media.

ADV 4101 AS-COMM 3(3,0)
Advertising Copywriting: PR: ADV 3000 or C.I. and Grammar Proficiency Exam. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media.

ADV 4103 AS-COMM 3(3,0)
Radio-Television Advertising: PR: Majors only, ADV 3000 or C.I. Radio and television advertising sales, including interpretation of rate structures, program audiences, and creative approaches to sponsor needs.

AFA 2102 AS-AAS 3(3,0)
Introductory Perspectives on African American Studies: Multidisciplinary perspectives are used to explore key issues and basic methodologies in African American Studies, featuring presentations by representative faculty from various disciplines.

AFA 3104 AS-AAS 3(3,0)
The African American Experience: PR: AFA 2102. The black experience in the African diaspora: interdisciplinary examination of major texts, theories, practices and philosophic foundations in African American intellectual and cultural history.

AFA 3955 AS-AAS 6(6,0)
Study Abroad in Eastern Caribbean: PR: AFA 4XXX (Caribbean Experience) or Junior standing. Interdisciplinary study abroad program focuses on the arts and humanities of African diasporic cultures in the Eastern Caribbean.

AFA 4105 AS-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.

AFA 5930 AS-AAS 3(3,0)
Topics in African American Studies: PR: graduate 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.

AFH 3100 AS-AAS 3(3,0)
African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870.

UCF Courses and Descriptions

AFH 3200	AS-AAS	3(3,0)	AMH 3403	AS-HIST	3(3,0)	of Western Europe, Western Africa, the Caribbean and the Americas.		
African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present.			History of the South Since 1865: PR: AMH 2010 and 2020, or C.I. Reconstruction, the "solid South" and the racial dilemma, progressivism for whites only, southern literature, 20th-century economic, political and social changes, and the new Reconstruction.					
AFH 5806	AS-HIST	3(3,0)	AMH 3421	AS-HIST	3(3,0)	AMH 4130	AS-HIST	3(3,0)
The Historiography of Slavery in Africa: PR: Graduate status or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa.			History of Florida to 1845: PR: AMH 2010 and 2020 or C.I.			The Age of the American Revolution, 1763-1789: PR: AMH 2010 and 2020 or C.I. The American Revolution - its origins, course, and impact upon American society - the Articles of Confederation, the Philadelphia Convention and its work.		
AFR 1101	ECS-AFROTC	1(1,2)	AMH 3423	AS-HIST	3(3,0)	AMH 4140	AS-HIST	3(3,0)
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.			Florida History 1845-Present: PR: AMH 2010 and 2020 or C.I.			Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812.		
AFR 1111	ECS-AFROTC	1(1,2)	AMH 3441	AS-HIST	3(3,0)	AMH 4160	AS-HIST	3(3,0)
The Air Force Today II: A brief review of the Army, Navy, and Marine force. An introduction to special operations and counterinsurgency.			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.			Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict.		
AFR 2130	ECS-AFROTC	1(1,2)	AMH 3442	AS-HIST	3(3,0)	AMH 4170	AS-HIST	3(3,0)
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.			History of the Frontier: Western America: PR: AMH 2010 and 2020 or C.I. The development of the trans-Mississippi West and its impact upon American history.			Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism.		
AFR 2131	ECS-AFROTC	1(1,2)	AMH 3540	AS-HIST	3(3,0)	AMH 4201	AS-HIST	3(3,0)
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.			Military History: A survey of US military history from the European background of the colonial period through the contemporary military experience.			The Gilded Age and Progressivism: PR: AMH 2010 and 2020 or C.I. The Rise of Industrialized and Urbanized America, The emergence of the New South and the New West, the Populist Movement, overseas expansion, Progressivism.		
AFR 3220	ECS-AFROTC	3(3,2)	AMH 3561	AS-HIST	3(3,0)	AMH 4231	AS-HIST	3(3,0)
Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles.			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.			United States History: 1914-1939: PR: AMH 2010 and 2020 or C.I. The progressive reforms of Woodrow Wilson, World War I, post-war prosperity, the Depression, the New Deal, and the coming of World War II.		
AFR 3230	ECS-AFROTC	3(3,2)	AMH 3562	AS-HIST	3(3,0)	AMH 4270	AS-HIST	3(3,0)
Air Force Evaluation and Management II: A concluding study of Air Force management fundamentals, including performance evaluation skills.			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.			United States History: 1939-1960: PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties.		
AFR 4201	ECS-AFROTC	3(3,2)	AMH 3571	AS-HIST	3(3,0)	AMH 4273	AS-HIST	3(3,0)
National Security Forces in Contemporary American Society I: Examination of the military and its role in American society. A study of the framework and formation of defense strategy.			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.			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.		
AFR 4210	ECS-AFROTC	3(3,2)	AMH 3572	AS-HIST	3(3,0)	AMH 4311	AS-HIST	3(3,0)
National Security Forces in Contemporary American Society II: PR: 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.			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.			American Culture I: PR: AMH 2010 and 2020 or C.I. The European Backgrounds: Puritanism; Enlightenment: the Great Awakening; Revolutionary Thought: Romanticism: the Southern Mind and the Yankee Response: Popular Culture and the rise of recreation.		
AMH 2010	AS-HIST	3(3,0)	AMH 3586	AS-HIST	3(3,0)	AMH 4313	AS-HIST	3(3,0)
U.S. History: 1492-1877: Survey of U.S. History from 1492-1877.			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.			American Culture II: PR: AMH 2010 and 2020 or C.I. The Darwinian Revolution; revolt of the intellectuals; the media explosion; mass entertainment in mass culture: the loss of community, the nuclear age, and presentism.		
AMH 2020	AS-HIST	3(3,0)	AMH 3610	AS-HIST	3(3,0)	AMH 4510	AS-HIST	3(3,0)
U.S. History: 1877-Present: PR: AMH 2010 or C.I. Survey of U.S. History from 1877 to the present. May be taken before AMH 2010.			Sport in America: History of sport from colonial times to present. Emphasis on social and economic development, intercollegiate and professional sport, and changing attitudes toward work, sport, and play.			Rise of the United States to World Power, 1776-1914: PR: AMH 2010 and 2020 or C.I. The evolution of basic American policies. American expansion. America's major wars, and the emergence of America as a world power.		
AMH 2020H	AS-HIST	3(3,0)	AMH 3800	AS-HIST	3(3,0)	AMH 4511	AS-HIST	3(3,0)
Honors U.S. History: 1877-Present: PR: AMH 2010 or C.I. Survey of U.S. History from 1877 to the present. May be taken before AMH 2010. Honors-level content.			Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867.			United States as a Great Power: 1914-Present: PR: AMH 2010 and 2020 or C.I. American foreign policy in World War I, the interwar period, World War II, and the Cold War.		
AMH 3370	AS-HIST	3(3,0)	AMH 4110	AS-HIST	3(3,0)	AMH 5116	AS-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.			Colonial America, 1607-1763: PR: AMH 2010 and 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries.			Colloquium in U.S. Colonial History: PR: Senior Standing or C.I. Reading and discussion of the literature on selected topics in colonial American history.		
AMH 3402	AS-HIST	3(3,0)	AMH 4112	AS-HIST	3(3,0)	AMH 5137	AS-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.			The Atlantic World: PR: C.I. The impact and transforming effect of the Atlantic System on the peoples			Colloquium in U.S. Revolutionary Period: PR:		

Senior Standing or C.I. Reading and class discussion of the literature on selected topics in the Revolutionary Era, 1763-1789.

AMH 5149 AS-HIST 3(3,0)
Colloquium in Early U.S. History, 1789-1815: PR: Senior standing or C.I. Reading and class discussion of the literature on selected topics of the early national period.

AMH 5169 AS-HIST 3(3,0)
Colloquium in Age of Jackson: PR: Senior Standing or C.I. Intensive reading and class discussion on selected topics of the Jacksonian age.

AMH 5176 AS-HIST 3(3,0)
Colloquium in Civil War and Reconstruction: PR: Senior Standing or C.I. Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era.

AMH 5219 AS-HIST 3(3,0)
Colloquium in Late 19th Century U.S.: PR: Senior Standing or C.I. Reading and class discussion of the literature on selected topics of late 19th-century U.S.

AMH 5296 AS-HIST 3(3,0)
Colloquium in 20th Century U.S.: PR: Senior Standing or C.I. Reading and class discussion on selected topics in 20th-century U.S.

AMH 5391 AS-HIST 3(3,0)
Colloquium in U.S. Cultural History: PR: Senior Standing or C.I. Students will read and discuss a common or diverse body of the significant literature in the field.

AMH 5407 AS-HIST 3(3,0)
Colloquium in American South: PR: Senior Standing or C.I. Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present.

AMH 5446 AS-HIST 3(3,0)
Colloquium in U.S. Frontier: PR: Senior Standing or C.I. Reading and class discussion of the literature on selected topics of frontier history.

AMH 5515 AS-HIST 3(3,0)
Colloquium in U.S. Diplomatic History: PR: Senior Standing or C.I. A survey of the historical literature of American foreign policy. May be repeated for credit when content is different.

AMH 5566 AS-HIST 3(3,0)
Colloquium: Women in American History: Intensive reading and class discussion on selected topics of Women in American History from colonial time to the present.

AMH 5937 AS-HIST 3(3,0)
AP American History: 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.

AML 3031 AS-ENG 3(3,0)
American Literature I: PR: ENC 1102. Major American writers from beginning through Whitman.

AML 3051 AS-ENG 3(3,0)
American Literature II: PR: ENC 1102. Major American writers from Twain to present.

AML 3283 AS-ENG 3(3,0)
Contemporary American Women's Fiction: PR: ENC 1102. Examines how novels and short stories by contemporary U.S. women define identity from diverse woman-centered and feminist perspectives.

AML 3613 AS-ENG 3(3,0)
Narratives of Slavery: PR: ENC 1102. Literary representations of New World slavery in the past and the present.

AML 3614 AS-ENG 3(3,0)
Topics in African-American Literature: PR: ENC 1102. Literature by and about African-American culture in the United States. May be repeated for credit.

AML 3615 AS-ENG 3(3,0)
Harlem, Haiti, and Havana: PR: 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.

AML 3640 AS-ENG 3(3,0)
Native American Literature: PR: ENC 1101 and ENC 1102. Native American genres, including traditional oral narratives, ritual and contemporary poetry, autobiography, and the novel.

AML 4101 AS-ENG 3(3,0)
American Novel: PR: ENC 1102 and ENG 3014. Analysis of major American novelists.

AML 4153 AS-ENG 3(3,0)
American Poetry at Mid-Century: PR: ENC 1102 and ENG 3014. Study of major figures from the "Middle Generation": Berryman, Bishop, Jarrell, Lowell, Plath, Rich, Roethke, and others.

AML 4154 AS-ENG 3(3,0)
Modern American Poetry: PR: ENG 3014. Major American poets of the modern (1900-1950) period.

AML 4261 AS-ENG 3(3,0)
Literature of the South: PR: 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.

AML 4265 AS-ENG 3(3,0)
Florida Writers: PR: 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.

AML 4321 AS-ENG 3(3,0)
Modern American Literature: PR: ENC 1102 and ENG 3014. Major writers of modern American literature.

AML 5076 AS-ENG 3(3,0)
American Literature: Colonial to Contemporary: PR: Graduate standing or C.I. Intended for graduate students and future teachers of American Literature, this course surveys texts produced in America from the colonial period to the present.

AML 5156 AS-ENG 3(3,0)
Modern American Poetry: 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.

ANG 5110 AS-SOC/AN 3(3,0)
Archaeological Theory and Method: PR: Graduate standing or C.I. A consideration of the history and current state of the art of the theory and methods used by archaeologists to interpret past behavior.

ANG 5165 AS-SOC/AN 3(3,0)
Field Research in Maya Studies: PR: ANG 6168 or C.I. Practical application of method and theory during primary in-field research in the Maya area.

ANG 5166 AS-SOC/AN 3(3,0)
Problems in Maya Studies: PR: ANG 6168 or C.I. In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies.

ANG 5167 AS-SOC/AN 3(3,0)
Maya Hieroglyphs: PR: ANG 6168 or C.I. The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture.

ANG 5228 AS-SOC/AN 3(3,0)
Maya Iconography: PR: ANG 6168 or C.I. Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features.

ANG 5467 AS-SOC/AN 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. The biological, social, cultural, psychological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary, ecological.

ANT 2000 AS-SOC/AN 3(3,0)
General Anthropology: An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology.

ANT 2000H AS-SOC/AN 3(3,0)
General Anthropology Honors: Extensive honors work in the field of anthropology. Expectations, requirements, and standards are greater than for standard General Anthropology.

ANT 2100 AS-SOC/AN 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.

ANT 2410 AS-SOC/AN 3(3,0)
Cultural Anthropology (Anthropology II): An introduction to human diversity as exemplified among various cultures and ethnic groups.

ANT 2511 AS-SOC/AN 3(3,0)
The Human Species: Human biological variation in an evolutionary perspective.

ANT 2511H AS-SOC/AN 3(3,0)
Honors The Human Species: PR: Admission to University Honors Program. Human biological variation in an evolutionary perspective.

ANT 3115 AS-SOC/AN 3(3,0)
Archaeological Method and Theory: A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports.

ANT 3142 AS-SOC/AN 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.

ANT 3145 AS-SOC/AN 3(3,0)
Archaeology of Complex Societies: Theoretical perspectives on ancient hierarchies of power.

ANT 3158 AS-SOC/AN 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

ANT 3163 AS-SOC/AN 3(3,0)
Mesoamerican Archaeology: An introduction to the prehistory of Mexico. Guatemala and upper Central America from earliest times through the Spanish conquest.

ANT 3164 AS-SOC/AN 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.

ANT 3168 AS-SOC/AN 3(3,0)
Maya Archaeology: An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field.

ANT 3184 AS-SOC/AN 3(3,0)
Mortuary Archaeology: PR: ANT 2000 or ANT 2100 or ANT 2511. Archaeological interpretations of death;

UCF Courses and Descriptions

basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern.

ANT 3212 AS-SOC/AN 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.

ANT 3241 AS-SOC/AN 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.

ANT 3245 AS-SOC/AN 3(3,0)
Native American Religions: PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples.

ANT 3262 AS-SOC/AN 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.

ANT 3273 AS-SOC/AN 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.

ANT 3302 AS-SOC/AN 3(3,0)
Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective.

ANT 3311 AS-SOC/AN 3(3,0)
Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast.

ANT 3312 AS-SOC/AN 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.

ANT 3313 AS-SOC/AN 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.

ANT 3314 AS-SOC/AN 3(3,0)
Indians of the Northeast Woodlands: PR: ANT 2003 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American Northeast

ANT 3316 AS-SOC/AN 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.

ANT 3318 AS-SOC/AN 3(3,0)
Indians of the Northwest Coast: PR: ANT 2003 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.

ANT 3319 AS-SOC/AN 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.

ANT 3320 AS-SOC/AN 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).

ANT 3332 AS-SOC/AN 3(3,0)
People and Cultures of Latin America: An overview of the history and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization.

ANT 3340 AS-SOC/AN 3(3,0)
Caribbean Cultures: PR: ANT 2000 or ANT 2410 or C.I. Comparative study of peoples and cultures of the Anglophone, Francophone and Hispanophone Caribbean.

ANT 3358 AS-SOC/AN 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).

ANT 3363 AS-SOC/AN 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.

ANT 3438 AS-SOC/AN 3(3,0)
Anthropology of Tourism: PR: Any 2000-level social science course. The social theory of tourism; anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments.

ANT 3467 AS-SOC/AN 3(3,0)
Nutritional Anthropology: PR: One 2000 level course in social sciences and one 2000 level course in biological sciences or C.I. The biological, social, cultural, physiological and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, ecological and evolutionary.

ANT 3541 AS-SOC/AN 3(3,0)
Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments.

ANT 3550 AS-SOC/AN 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.

ANT 3640 AS-SOC/AN 3(3,0)
Language and Culture: PR: Sophomore standing. The study of language in a non-western setting; language and behavior; language and perception.

ANT 3701 AS-SOC/AN 3(3,0)
Applied Anthropology: PR: ANT 2003 or CI. Application of anthropological methods to current human problems such as the environment, migration, globalization and health.

ANT 3802 AS-SOC/AN 3(3,0)
Ethnographic Field Methods: PR: ANT 2410 or ANT 3640 or C.I. Procedures and principles of ethnographic research methods.

ANT 3949 AS-SOC/AN 0(0,8)
Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. May be repeated. Graded S/U.

ANT 4034 AS-SOC/AN 3(3,0)
History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology.

ANT 4153 AS-SOC/AN 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.

ANT 4180C AS-SOC/AN 3(1,4)
Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit.

ANT 4308 AS-SOC/AN 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.

ANT 4352 AS-SOC/AN 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.

ANT 4354 AS-SOC/AN 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.

ANT 4462 AS-SOC/AN 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.

ANT 4521C AS-SOC/AN 5(3,3)
Forensic Anthropology: PR: ANT 2511 & ANT 4525C, C.I. The study of human skeletal remains in relation to a legal context.

ANT 4525C AS-SOC/AN 4(3,1)
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.

ANT 4586 AS-SOC/AN 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.

ANT 4824 AS-SOC/AN 9(9,0)
Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork.

APA 3471 BA-ACCT 3(3,0)
Accounting for Engineers: General Accounting principles and practice, cost accounting, budgeting, and control techniques. Not usable for BSBA degree credit.

APB 4651 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.

APB 4652 HPA-HP 2(2,0)
Medical Pharmacology II: PR: APB 4651 or C.I. Drugs used in cardiovascular disorders. Includes inotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists.

ARA 1120 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization I: Introduces the student to Arabic language skills. Open only to students with no experience in the language.

ARA 1120H AS-LANG 4(4,1)
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.

ARA 1121 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization II: PR: ARA 1120 or C.I. Continuation of ARA 1120.

ARA 1121H AS-LANG 4(4,1)
Honors Elementary Arabic Language and Civilization II: PR: Permission of Honors. Continuation of ARA 1120H. Honors level content.

ARA 2200 AS-LANG 3(3,1) Intermediate Arabic Language and Civilization I: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level. =	ARE 5648 ED-TLP 3(3,0) Contemporary Visual Arts Education: PR: ARE 4443 or C.I. Continued study of current programs and innovations in public school Visual Arts Programs.	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.
ARE 2011 ED-TLP 3(3,0) Early Childhood Art and Creativity: An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented.	ARH 2005 AS-ART 3(3,0) Survey of Non-Western Art: An interdisciplinary examination of the history of major visual arts in various non-Western cultures.	ARH 3802 AS-ART 3(3,0) Happenings and Conceptual Art: PR: Junior Standing or C.I. Aesthetic and social significance of "Total Art" in its attempt to break down customary distinctions between life and art.
ARE 3944 AS-ART 3(2,3) Community Arts Practicum: A supervised experience for students to facilitate art programming in a variety of community settings.	ARH 2050 AS-ART 3(3,0) The History of Art I: Painting, sculpture and architecture from the Prehistoric Era through the Renaissance period.	ARH 3820 AS-ART 3(3,0) Visual Arts Administration Vitas: Grant applications; Personnel; copyright laws; museum practices, etc.
ARE 4262 AS-ART 3(3,0) Methods in Art Administration: PR: ARH 3820. Theories and methodologies for designing, implementing and administering art programs for a variety of populations.	ARH 2050H AS-ART 3(3,0) The History of Art I: Survey Art History to be offered for the Honors Program. May be repeated for credit.	ARH 4170 AS-ART 3(3,0) Greek & Roman Art: PR: ARH 2050 or HUM 3431 and ENC 1102 or C.I. A study of the art and architecture of the ancient civilizations of the Mediterranean, comprising Greece, Etruria, and Rome.
ARE 4313 ED-TLP 3(2,1) Art in the Elementary School: Basic principles, purposes, scope and sequence; organization for instruction; evaluation of activities; selected art experiences.	ARH 2051 AS-ART 3(3,0) The History of Art II: PR: ARH 2050. Painting, sculpture and architecture from the Baroque through the 20th century.	ARH 4200 AS-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.
ARE 4351 ED-TLP 3(2,1) Teaching Art in the Elementary School: PR: EDF 4214 and EDG 4323. Transition from university art studio practices to public school teaching of art. Organizing, designing and analyzing art experiences, activities and classroom environments for the elementary school classroom.	ARH 2051H AS-ART 3(3,0) Honors History of Art II: PR: ARH 2050, permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level content.	ARH 4310 AS-ART 3(3,0) Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of Italian Art and Architecture from 1300 to 1500.
ARE 4352 ED-TLP 3(2,1) Teaching Art in the Secondary School: PR: ARE 4143, 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.	ARH 3421 AS-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.	ARH 4350 AS-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.
ARE 4356 ED-TLP 3(3,1) Teaching Art Appreciation & Criticism in the Classroom: PR: ARH 2050 and ARH 2051. An examination of art appreciation programs and concepts toward planning curriculum for the study of art history, popular art, art criticism, and aesthetics for specific educational settings.	ARH 3456 AS-ART 3(3,0) Art in the Last 25 Years: PR: ARH 2050 and ARH 2051 or C.I. A seminar for upper-level art students to examine current trends in the visual arts.	ARH 4430 AS-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.
ARE 4453 ED-TLP 3(3,0) Studio Experiences in Art Education: PR: Completion of all Art Education Program Prerequisites or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit.	ARH 3520 AS-ART 3(3,0) African Art: Teach the continuatives between African, Afro-Caribbean and Afro-American Arts.	ARH 4450 AS-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.
ARE 4945 AS-ART 12(0,12) Community Arts Internship: An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience.	ARH 3522H AS-ART 3(3,0) Honors: African American Arts Seminar: An exploration of traditional, academic, and contemporary urban African American visual arts.	ARH 4458 AS-ART 3(3,0) Women and Art in the 20th Century America: A course on women artists, feminist aesthetics, and women's artistic cultures, focusing on 20th century America.
ARE 5251 ED-TLP 3(2,1) Art for Exceptionalities: Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped.	ARH 3570 AS-ART 3(3,0) Ceramics of the Muslim World: PR: ARH 2050 or C.I. Islamic Art and the stylistic and technical characteristics of the period, in contrast to pre-Islamic or other civilizations such as the ancient Greeks, Egyptians, Babylonians, and Chinese.	ARH 4545 AS-ART 3(3,0) Art of India: Art and architecture of India from prehistoric times through the Gupta, Rajput, and Muslim periods.
ARE 5255 ED-TLP 3(2,1) Arts in Recreation: Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas.	ARH 3670 AS-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.	ARH 4655 AS-ART 3(3,0) Meso American Art: A survey of the art of Mexico and Central America, from the Pre-Columbia, through the Spanish Colonial, to the 20th century.
ARE 5454 ED-TLP 3(3,0) Studio Experiences in Art Education: PR: Graduate admission or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit.	ARH 3683 AS-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.	ARH 4800 AS-ART 3(3,0) Theory and Criticism of the Visual Arts: PR: ARH 2050 and ARH 2051 or C.I. Criteria of criticism, analysis of works, elements of psychology and sociology of art. Developments in the art of the 20th century.
	ARH 3710 AS-ART 3(3,0) History of Photography I: History of still photography from its earliest inception to 1900. The content of this course is designed for art majors.	ARH 4892 AS-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.
	ARH 3711 AS-ART 3(3,0) History of Photography II: History of still photography from the early 20th century to the present. The content of this course is designed for art majors.	ARH 5478 AS-ART 3(3,0) Contemporary Women Artists: PR: 6 credits of art courses or C.I. An in-depth study on contemporary women artists from a feminist perspective.
	ARH 3720 AS-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."	ARH 5933 AS-ART 3(3,0) Seminar in African and African-American Arts: PR: ARH 3520. Research on questions regarding continuities between African and African-American (including
	ARH 3728 AS-ART 3(3,0) American Art: PR: ARH 2050 and ARH 2051 or C.I.	

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Latin-American) arts. Themes include signs and scripts, charms, and textiles.

ARTH 5934 AS-ART 3(3,0)
Orlando Art Exhibition: PR: Graduate Standing or C.I. A partnership class which focuses on the study of an Art Exhibition in an Orlando art or history museum. May be repeated for credit.

ART 2130C AS-ART 3(3,0)
Fibers & Fabrics: Design and production training in surface design, floor loom weaving and fiber sculpture.

ART 2160C ED-TLP 3(2,3)
Metals, Woods, Leathers and Stones: Processes and techniques of production.

ART 2201C AS-ART 3(2,4)
Design Fundamentals-Two Dimensional: PR: ART 2820. Priority given to students whose major requires this course. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory.

ART 2203C AS-ART 3(2,4)
Design Fundamentals-Three Dimensional: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Basic three-dimensional design using the various sculptural media.

ART 2300C AS-ART 3(2,4)
Drawing Fundamentals I: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Drawing as a means of formal organization. Introduction to problems in drawing methods and media. Emphasis on description techniques.

ART 2301C AS-ART 3(2,4)
Drawing Fundamentals II: PR: ART 2300C and ART 2820 or C.I. Priority given to students whose major requires this course. Continuation of ART 2300C.

ART 2394 AS-ART 3(3,0)
Drawing: Computer as a Medium: Object drawing, using the computer and drawing stylus as a medium.

ART 2400C AS-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.

ART 2500C AS-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.

ART 2600C AS-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.

ART 2701C AS-ART 3(2,4)
Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2300C, ART 2301C.

ART 2754C AS-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.

ART 2820 AS-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.

ART 3161 AS-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.

ART 3255C AS-ART 3(2,4)
Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Pictorial and representational illustration using various media and techniques.

ART 3332C AS-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.

ART 3401C AS-ART 3(2,4)
Intermediate Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Intermediate overview of printmaking process.

ART 3433C AS-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.

ART 3504C AS-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.

ART 3616C AS-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.

ART 3618C AS-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.

ART 3643C AS-ART 3(3,0)
Digital Effects & Compositing: PR: Animation major. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop or comparable software.

ART 3760C AS-ART 3(2,4)
Intermediate Ceramics: PR: ART 2201C, ART 2203C, ART 2300C and ART 2301C. Continuation of ceramic processes.

ART 3833C AS-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.

ART 3950 AS-ART 0(0,0)
Portfolio Review: PR: C.I. Review of relevant artistic works in a student's portfolio. Graded S/U.

ART 4132C AS-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.

ART 4226C AS-ART 3(3,3)
Post Production for Animators: PR: FIL 3287C. Concepts and tools for finishing computer and traditional animations on film and video. Emphasis on compositing tools to combine elements in a finished animation.

ART 4256C AS-ART 3(2,4)
Advanced Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3255C, 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.

ART 4320C AS-ART 3(2,4)
Advanced Drawing: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3332C. May be repeated for credit.

ART 4402C AS-ART 3(2,4)
Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3401C, and a satisfactory portfolio review or C.I. May be repeated for credit.

ART 4505C AS-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.

ART 4610C AS-ART 3(2,4)
Advanced Computer Graphic Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, Acceptance in Graphic Design Concentration, GRA 3112C, GRA 2140C, and a satisfactory portfolio review or C.I. Problems involving the use of advanced computer graphic systems for electronic publication.

ART 4634C AS-ART 3(3,1)
Web Art: PR: ART 2820 or C.I. The Web as a medium for art.

ART 4710C AS-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.

ART 4764C AS-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.

ART 4780C AS-ART 3(2,4)
Kiln Design and Building: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, ART 4114C, 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.

ART 4783C AS-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.

ART 4786C AS-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.

ART 4935 AS-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

ART 4945 AS-ART 6(0,6)
C.R.E.A.T. Project: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4288C, and a satisfactory portfolio review or C.I. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry.

ART 4971 AS-ART VAR
Senior Thesis: PR: Senior Standing, Art major, C.I. A

capstone thesis for Art Animation majors. Repeatable for credit.

ART 5109C AS-ART 3(2,1)
Multi-Cultural Crafts Design: The content of this course will include an appreciation for and the production of Western and Non-Western art forms.

ART 5811C AS-ART 3(3,1)
The Professional Practice of Art: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C- (no graduate level prerequisite) 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

ASH 3222 AS-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.

ASH 3223 AS-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.

ASH 4304 AS-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.

ASH 4402 AS-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.

ASH 4404 AS-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.

ASH 4442 AS-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.

ASH 5227 AS-HIST 3(3,0)
The Arab-Israeli Conflict: PR: Graduate 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

ASH 5408 AS-HIST 3(3,0)
Colloquium in Modern China: PR: Graduate standing, Senior status, or C.I. Course explores works of scholarship in modern China including the rise of Communism, Chinese women and Sino-American relations.

AST 2002 AS-PHYS 3(3,0)
Astronomy: Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars.

AST 2002H AS-PHYS 3(3,0)
Honors Astronomy: Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. Honors level content.

AST 2002L AS-PHYS 1(0,3)
Astronomy Lab: CR: AST 2002. Laboratory experiments covering selected topics in astronomy related to AST 2002.

AST 3110 AS-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.

AST 3211 AS-PHYS 3(3,0)
Stellar Astrophysics: PR: AST 2002, PHY 2053C. The physics and dynamics of stars, including star formation and stellar evolution.

AST 3402 AS-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.

AST 3722C AS-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.

AST 4501 AS-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.

AST 5165 AS-PHYS 3(3,0)
Planetary Atmospheres: PR: Mechanics PHY 3221 and Modern Physics 3101. This course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets.

AVM 2510 UCF-HOSP 3(3,0)
Airline Management: PR: Junior Standing. The trends, operation, practices, and procedures of the airline industry. Special emphasis on ticketing, scheduling, marketing, and terminal management.

BCH 4053 AS-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.

BCH 4054 AS-CHEM 3(3,0)
Biochemistry II: PR: BCH 4053. Continuation of BCH 4053.

BCH 4103L AS-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.

BOT 3152C AS-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.

BOT 3800 AS-BIOL 3(3,0)
Ethnobotany: PR: C.I. Historical and modern uses of plants economically important in various cultures. Designed for majors and non-majors.

BOT 3820C AS-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.

BOT 4156C AS-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.

BOT 4223C AS-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.

BOT 4303C AS-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.

BOT 4503 AS-BIOL 3(3,0)
Plant Physiology: PR: PCB 3023 or C.I. A Study of mechanisms used by plants to cope with the environment.

BOT 4503L AS-BIOL 1(0,3)
Plant Physiology laboratory: CR: BOT 4503. The laboratory to accompany BOT 4503

BOT 4696C AS-BIOL 4(3,3)
Conservation and Management of Native Plants: PR: BOT 4713C, PCB 3034 and/or BOT 4503C or C.I. Identification, conservation, propagation and management of Florida rare, endangered, indicator or reclamation species.

BOT 4713C AS-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.

BOT 5485C AS-BIOL 3(2,3)
Terrestrial Cryptogams: PR: BOT 4303C 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.

BOT 5623C AS-BIOL 4(3,3)
Plant Geography and Ecology: PR: PCB 3034 or C.I. The study of the abiotic and biotic processes that control the distribution of terrestrial flora at local, landscape, and global scales.

BSC 1005 AS-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.

BSC 1005H AS-BIOL 3(3,0)
Biological Principles-Honors: PR: Honors. Biological factors that affect dependence on the environment; the role of human population preserving ecological integrity.

BSC 1005L AS-BIOL 1(0,2)
Biological Principles Laboratory: CR: BSC 1005. The laboratory to accompany BSC 1005.

BSC 1050 AS-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.

BSC 1050H AS-BIOL 3(1,4)
Biology and Environment-Honors: PR: Honors program. 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.

BSC 1050L AS-BIOL 1(0,2)
Biology and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050.

BSC 2010C AS-BIOL 4(3,2)
General Biology: PR: High school biology or C.I. Priority given to students whose major requires this course. Basic principles, unifying concepts, and facts of modern biology. Introduction to quantitative biological experimentation. Open only to students whose major requires this specific course.

BSC 2010H AS-BIOL 4(3,3)
General Biology Honors: PR: Eligibility for Honors Program. Basic principles and unifying concepts of modern biology. Introduction to quantitative experimentation using intensive, open-ended labs.

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BSC 2011C AS-BIOL 4(3,3) Biological Diversity: PR: BSC 2010C or C.I. Introduction to botany and zoology. Structure, function, and representative groups of plants and animals. Open only to students whose major requires this specific course.	BUL 3130H BA-ACCT 3(3,0) Legal & Ethical Environment of Business - Honors: PR: Junior standing, Permission of Honors Program. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level content.	CAP 5512 ECS-EECS 3(3,0) Evolutionary Computation: This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms.
BSC 2011H AS-BIOL 4(2,6) Honors Biodiversity: PR: BSC 2010H, BSC 2010P, 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.	BUL 3320 BA-ACCT 3(3,0) Business Law I: PR: Junior Standing. Introduction to law; a social and political institution in the business environment. Analysis of statutory and common law principles involved in the formation, operation, and termination of recognized business organizations. Analysis of the effects of government regulation on business activity, including anti-trust and securities regulation.	CAP 5610 ECS-EECS 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.
BSC 3404C HPA-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.	BUL 3321 BA-ACCT 3(3,0) Business Law II: PR: BUL 3320. Coverage of the Uniform Commercial Code; the law of commercial transactions, including sales, commercial paper, secured transactions and suretyship, contracts, wills and trusts, and property law.	CAP 5636 ECS-EECS 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.
BSC 3404H HPA-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.	BUL 4540 BA-ACCT 3(3,0) Employment Law: PR: 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.	CAP 5725 ECS-EECS 3(3,0) Computer Graphics I: Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems.
BSC 3949 AS-BIOL 0(0,8) Cooperative Education in Biology: PR: Departmental permission required before registering. Cooperative education experience in biology. May be repeated. Graded S/U.	BUL 5125 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.	CBH 3003 AS-PSYCH 3(3,0) Comparative Psychology: PR: PSY 2012. A study of comparative behaviors of lower animals.
BSC 4101 AS-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.	BUL 5332 BA-ACCT 3(3,0) Advanced Business Law Topics: PR: BUL 3130. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions.	CCE 4003 ECS-CEE 3(3,0) Introduction to the Construction Industry: PR: Civil Engineering with construction option. The construction industry. Topics covered include: project evaluation, project phases, project delivery systems, contracts, estimating and scheduling. Also drawing and specifications.
BSC 4312C AS-BIOL 4(3,3) Marine Biology: PR: PCB 3034 and STA 2023. The biological, ecological, physical and chemical aspects of the world's oceans.	CAP 4020 ECS-EECS 3(3,0) Digital Media: PR: COP 3530C or C.I. Information structures, algorithms and interactive tools for creation, compression, storage, indexing and transmission of multimedia (visual images, sound, tactile displays, etc.) Project-oriented.	CCE 4004 ECS-CEE 3(3,0) Construction Methods: PR: EGN 3613 and junior standing. Construction project evaluation principles along with construction methods for civil and structural systems. May be repeated for credit.
BSC 4422L AS-BIOL 1-4(0,3-12) Biology Laboratory Techniques: PR: PCB 3034, CHM 2210, or C.I. Individual and small group instruction in current laboratory techniques beyond the scope of typical Biology laboratories. May be repeated for credit, up to a maximum of 4 credits total. Graded S/U.	CAP 4021 ECS-EECS 3(3,0) Building Virtual Worlds: PR: COP 3530C or C.I. Design and construction of software for networked interactive learning environments, entertainment and communication systems. Tools for enabling dramatic, artistic and technical creativity. Project oriented.	CCE 4031 ECS-CEE 3(3,0) Construction Project Management: PR: EGN 3613. Project management in the construction industry. Project financial evaluation on a life cycle basis. Essentials of project management such as estimating scheduling, contracts, and administration. May be repeated for credit.
BSC 5408L AS-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.	CAP 4453 ECS-EECS 3(3,0) Robot Vision: PR: COP 3530C and MAC 2312, or C.I. Pin hole camera and eye, perspective and orthographic projections, the processing of edges, regions, motion, shading, texture, object; robot arm usage.	CCE 4034 ECS-CEE 3(3,0) Construction Estimating and Scheduling: PR: CCE 4003. This course covers construction project estimating and bidding and the preparation of construction schedules. This is followed by in-depth coverage of time and cost control.
BSC 5817 AS-BIOL 3(3,0) Biology for AP Teachers: Participants will perform and evaluate the 12 required labs, analyze the design and grading of the Exam, and develop a representative program.	CAP 4630 ECS-EECS 3(3,0) Artificial Intelligence: PR: COP 3530C. Current methods in AI: knowledge-based systems, representation, inference, planning, natural language. Programming in Lisp or Prolog required.	CCE 4402 ECS-CEE 3(3,0) Construction Equipment and Productivity: PR: CCE 4003, Junior standing. Selection of appropriate equipment based on operational parameters. Principles of construction productivity measurement and analysis. Discrete event simulation. May be repeated for credit.
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.	CAP 5015 ECS-EECS 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.	CCE 4810 ECS-CEE 4(4,0) Construction Design Project: PR: Senior Standing, CCE 4003, and CCE 4004. The preparation and development of a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control.
BUL 3130 BA-ACCT 3(3,0) Legal and Ethical Environment of Business: PR: Junior standing. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical consideration.	CAP 5415 ECS-EECS 3(3,0) Computer Vision: PR: COP 3530C. Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation.	CCE 4813 ECS-CEE 4(4,0) Mechanical and Electrical Systems for Buildings: PR: CCE 4003 or C.I. Design and construction of mechanical and electrical systems for buildings.

CCE 5036	ECS-CEE	3(3,0)	that will enable a crime analysis sophisticated methodologies to crime analysis.
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.			
CCE 5205	ECS-CEE	3(3,0)	
Construction Methods:	PR: post-bas status or C.I.		
This class covers construction project evaluation principles along wit construction methods for civil and structural systems.			
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.			
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			
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.			
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.			
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			
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.			
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.			
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.			
CCJ 3520H	HPA-CJ/LS	3(3,0)	
Honors Juvenile Offenders:			
An Integrative Perspective: PR: C I. To provide students with an integrative understanding of the social, psychological, and legal dynamics evident in processing juvenile offenders.			
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.			
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.			
CCJ 4076	HPA-CJ/LS	3(3,0)	
Crime Analysis II:	PR: CJE 4654, CJE 4663.		
Designed to provide advanced data analysis skills			
CCJ 4100	HPA-CJ/LS	3(3,0)	
Criminal Investigation:	PR: CJE 4014.		
Course acquaints students with basic Procedures used in Criminal investigations, purpose of investigations, and ingredients for successful investigations.			
CCJ 4195	HPA-CJ/LS	3(3,0)	
Interviews & Interrogations in CJ:	PR: CCJ 3024 (Criminal Justice System) and CJ Major or CI.		
The criminal justice interview process including history of criminal justice interviews, the use of Miranda, non-verbal listening, and the rules of testimonial evidence.			
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.			
CCJ 4454	HPA-CJ/LS	3(3,0)	
Policy Development in Law Enforcement:	PR: CJE 4014.		
The course is designed to deal with policy development in law enforcement. Major issues of organization, administration, personnel practices and police operations will be addressed.			
CCJ 4459	HPA-CJ/LS	3(3,0)	
Justice Agency Operations:	PR: CCJ 3024 and CCJ 3450 or C.I.		
Elements, functions, and processes essential to the continuing management of various criminal justice agencies, institutions and court systems.			
CCJ 4463	HPA-CJ/LS	3(3,0)	
Cultural Diversity in Criminal Justice:	PR: CCJ 3024.		
This course focuses on the problems and issues associated with race, ethnic and gender relations in the administration of justice in a democratic society.			
CCJ 4484	HPA-CJ/LS	3(3,0)	
Liability Issues in Criminal Justice:	PR: CCJ 3024.		
Student of fundamental concepts found in civil law with an emphasis on civil liability regarding criminal justice practices.			
CCJ 4486	HPA-CJ/LS	3(3,0)	
Criminal Justice Ethics:			
Focuses on the ethical issues and problems commonly encountered in the criminal justice system (policy courts and corrections).			
CCJ 4616	HPA-CJ/LS	3(3,0)	
Criminal Profiling in Criminal Justice:	PR: CCJ 3014.		
Examines criminal profiling undertaken by law enforcement and prosecution authorities which consists of gathering, reviewing and analyzing evidence pertaining to violent crimes.			
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.			
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.			
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.			
CCJ 4661	HPA-CJ/LS	3(3,0)	
Terrorism:	PR: CCJ 3024 and CJE 4014 or C.I.		
An examination of competing ideologies of a variety of social and political conflicts (both international and domestic) that give rise to terrorism and of the implications for the criminal justice system.			
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.			
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.			
CCJ 4690	HPA-CJ/LS	3(3,0)	
Sex Offenders and the Criminal Justice System:	PR: CCJ 3024.		
Provides students a better understanding of how the criminal justice system deals with sex offenders and their offenses.			
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.			
CCJ 4934	HPA-CJ/LS	3(3,0)	
Emergent Criminal Justice Issues:	PR: CCJ 3014, CCJ 3024.		
In-depth analysis of developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit.			
CCJ 4941	HPA-CJ/LS	6-9(0,12-30)	
Criminal Justice Internship:	PR: C.I.		
Internship in municipal, county, state or federal criminal justice agency. Includes assignments in police, courts, corrections components.			
CCJ 5015	HPA-CJ/LS	3(3,0)	
The Nature of Crime:			
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.			
CCJ 5040	HPA-CJ/LS	6(6,0)	
International Perspectives on Law and Justice:	PR: C.I. or graduate standing.		
Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits.			
CCJ 5073	HPA-CJ/LS	3(3,0)	
Data Management Systems for Crime Analysis:	PR: gradaute standing or C.I.		
This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation.			
CCJ 5105	HPA-CJ/LS	3(3,0)	
Foundations of Law Enforcement:	PR: C.I.		
Examines police role in modern society and law enforcement policy.			
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.			
CCJ 5456	HPA-CJ/LS	3(3,0)	
The Administration of Justice:			
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.			
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.			
CCJ 5675	HPA-CJ/LS	3(3,0)	
Human Rights & Criminal Justice:	PR: Senior scholar or graduate standing or C.I.		
Provides in-depth analysis of the human rights movement and its potential impact upon criminal law as well as the juvenile and criminal justice systems.			

UCF Courses and Descriptions

CCJ 5688	HPA-CJ/LS	3(3,0)	CEG 4801C	ECS-CEE	3(2,2)	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.			
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.			Geotechnical Engineering Design: PR: CEG 4101C. Project course on design of foundations and other soil structures using geotechnical design methodologies.						
CCJ 5704	HPA-CJ/LS	3(3,0)	CEG 4812	ECS-CEE	1(1,0)	CEC 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.
Research Methods in Criminal Justice: An examination of the philosophy and techniques of research as applied in the Criminal Justice field.			Historical Developments in Civil Engineering: Seminar covering major historical developments in civil engineering.						
CDA 3103C	ECS-EECS	3(3,1)	CEG 5015	ECS-CEE	3(3,0)	CEC 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
Computer Organization: PR: COP 3502C. Combinational logic, circuits, sequential logic design, finite state machine design, software tools for logic design, and assembly language programming.			Geotechnical Engineering II: PR: CEG 4101C. Continuation of CEG 4101C with emphasis on shear strength and design factors for earth pressures, bearing capacity, and slope stability.						
CDA 4150	ECS-EECS	3(3,0)	CEG 5700	ECS-CEE	3(3,0)	CET 2123C	ECS-ENT	3(2,3)	Microprocessor Electronics I: PR: MAC 1105. Introduction to microprocessors. Includes machine language programming, an introduction to microprocessor-based system architecture, and binary and hexadecimal arithmetic.
Computer Architecture: PR: COP 3402C and CDA 3103C. Basic processor design, hardwired and micro-programmed control, ALU, memory organization, pipelining, I/O and computer arithmetic.			Geo-Environmental Engineering: PR: CEG 4101C. Geotechnical applications to environmental problems, groundwater flow, soil contamination and groundwater contaminate transport, geosynthetics and stability of landfill design, control of contaminated sites.						
CDA 4506C	ECS-EECS	3(1,2)	CEN 4020	ECS-EECS	3(3,0)	CET 2364	ECS-ENT	3(3,0)	Systems Applications in C: PR: MAC 1105. Use of C language in control of system processes, DOS and BIOS interrupts, and interfacing with assembly language. May be repeated for credit.
Design and Implementation of Computer Communication Networks: PR: COP 3502, MHF 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.			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						
CDA 4527	ECS-EECS	3(3,0)	CEN 5016	ECS-EECS	3(3,0)	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.
Analysis of Computer Communication Networks: PR: COT 3100, STA 2023, MAC 2312. Network design using layering. Introduces cabling, topology, architecture, hardware and software. Includes performance and control issues such as congestion control, error control, contention resolution.			Software Engineering: PR: COP 4232. Study and application of formal software development processes and documentation standards for large scale software systems. A team project is required.						
CDA 5106	ECS-EECS	3(3,0)	CES 4100C	ECS-CEE	4(3,3)	CET 3144C	ECS-ENT	3(2,2)	Applied Microprocessor Technology: PR: DC Circuit Analysis, digital and microprocessor fundamentals, and high level programming language. Analysis and design of the components, architecture, and interfacing of a microcomputer. Specific reference to IBM compatible microcomputers and peripherals. Troubleshooting and repair are emphasized in the laboratory.
Advanced Computer Architecture I: PR: CDA 4150. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O.			Structural Analysis I and Lab: PR: EGN 3331. Topics in structural mechanics, analysis of determinate and indeterminate structures by flexibility and stiffness methods computer and laboratory exercises on behavior of structures and materials.						
CDA 5110	ECS-EECS	3(3,0)	CES 4101	ECS-CEE	3(3,0)	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
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.			Structural Analysis II: PR: CES 4101. Special structures; introduction to matrix structural analysis, dynamic loads including wind and earthquake.						
CDA 5215	ECS-EECS	3(3,0)	CES 4130L	ECS-CEE	1(0,3)	CET 3323C	ECS-ENT	4(3,2)	Digital Technology: PR: MAC 1105 and C.I. Digital logic gates, memory devices, Karnaugh Maps, combinational logic, arithmetic units, registers and sequential logic.
Architecture and Design of VLSI: PR: CDA 4150 or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system.			Structures Laboratory: PR: EGN 3331; CR: CES 4100C. Laboratory exercises on the behavior of structures and structural materials.						
CDA 5501	ECS-EECS	3(3,0)	CES 4605	ECS-CEE	3(3,0)	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.
Computer Communication Networks Architecture: PR: CDA 4150. Computer networks, layers, protocols and interfaces, local area networks networking.			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.						
CDA 5530	ECS-EECS	3(3,0)	CES 4608C	ECS-CEE	3(2,2)	CET 3503	ECS-ENT	3(3,0)	Microcomputer Technology I: PR: CET 2123C and high level programming language. Microcomputer assembly programming, including overview of architecture and operating system environment. May be repeated for credit.
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			Steel Design: PR: CES 4605. Project course on design of steel components, connections, and frame structures using AISC specifications.						
CEG 3301	ECS-CEE	3(3,0)	CES 4702	ECS-CEE	3(3,0)	CET 3752	ECS-ENT	3(3,0)	Intro to Telephony: PR: EET 3085C or equivalent or C.I. An introductory level course in telephony technology. The telephony environment, telemanagement, telephony connectivity and services of telephony.
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.			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.						
CEG 4101C	ECS-CEE	4(3,2)	CES 4709C	ECS-CEE	3(2,2)	CET 4134C	ECS-ENT	3(2,4)	Microprocessor Electronics II: PR: Digital Circuits I and CET 2123C. The MC68000 Software architecture programming and hardware architecture are covered
Geotechnical Engineering I: PR: EGN 3331 and CWR 3201. Engineering properties and classification of soils. Design considerations for compaction, seepage, consolidation, and settlement analysis.			Concrete Design: PR: CES 4702. Project course on design of concrete structures using concrete and structural analysis methodologies.						
			CES 5325	ECS-CEE	3(3,0)				
			Bridge Engineering: PR: CES 4605; CES 4702. Structural systems for bridges, loading, analysis by influence lines, slab and girder bridges, composite design, prestressed concrete, rating of existing bridges, specifications and economic factors.						
			CES 5606	ECS-CEE	3(3,0)				
			Advanced Steel Structures: PR: CES 4605.						

in great details. Assembly language programming interfacing and hardware characteristics as well as applications are covered.

CET 4138 ECS-ENT 4(3,2)
Digital Programmable Devices: PR: CET 3198C or equivalent and C.I. Architecture and applications of various types of programmable logic devices. Design entry methods, e.g. HDL, schematic capture, etc. Lab exercises using PALS, PLDs, and FPGs.

CET 4333 ECS-ENT 3(3,0)
Computer Organization and Design: PR: CET 3323C. Basic computer architecture and system design. An introduction to memory, processor, Bus and I/O organization.

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.

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.

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.

CET 4469C ECS-ENT 3(2,2)
Applied Infobases: PR: ETI 3651, CET 3144C, CET 3503 or equivalent, C.I. Using computer application packages to create, use, and index both personal and technical infobases. Hardware and software optimization. Enhancement add-ins. Intranet applications.

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.

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.

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.

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

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

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.

CET 4741L ECS-EECS 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.

CET 4748 ECS-ENT 3(3,0)
Wide Area Networks I: PR: CET 3752 or CET 4483, or C.I. Designing Wide Area Networks; determining requirements, designing the networks, structure, choosing appropriate technologies, and evaluating results.

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.

CET 4915C ECS-ENT 3(1,4)
Senior Design Project: PR: Computer, Electronics, or Information Systems Engineering Technology senior within 18 semester hours of graduation. Supervised individual or group projects involving project definition, planning, design, development, testing and evaluation. Progress reports and final report are required.

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.

CGN 3501C ECS-CEE 3(2,3)
Civil Engineering Materials: PR: C.I. The characterization of materials used in civil engineering works to include concrete, soils, bituminous, polymers and composite materials.

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.

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.

CGN 5320C ECS-CEE 3(2,2)
Geographic Information systems: Programming theory and application of Geographic Information Systems to Civil Engineering projects.

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.

CGN 5506C ECS-CEE 3(2,2)
Asphalt Concrete Mix Design: PR: CEG 4101C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation.

CGS 1060C ECS-EECS 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.

CGS 1060H ECS-EECS 3(2,2)
Honors Introduction to Computer Science: PR: Admission to Honors Program. 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

CGS 2100C ECS-EECS 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.

CGS 2515 ECS-EECS 3(3,0)
Spreadsheet Concepts: PR: CGS 1060C. Advanced techniques of spreadsheets, charts, macros, objects, database features and data analysis tools.

CGS 2545C ECS-EECS 3(2,1)
Database Concepts: PR: CGS 1060C or equivalent. Entity-relation model, relational database management systems, normal forms, performance or databases, report generation.

CGS 2585C ECS-EECS 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.

CGS 3175 ECS-EECS 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.

CGS 3269 ECS-EECS 3(3,0)
Computer Architecture Concepts: PR: CGS 1060C. CPU organization, current computer architectures, network file servers. (Same as CGS 3266/3267/3268)

CGS 3285 ECS-EECS 3(3,0)
Computer Network Concepts: PR: CGS 1060C or equivalent. Network media, protocol, current and evolving standards for local, metropolitan, wide area and wireless networks.

CGS 3763 ECS-EECS 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.

CGS 5131 ECS-EECS 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.

CGS 5132 ECS-EECS 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.

CHI 1120 AS-LANG 4(4,1)
Elementary Chinese Language and Civilization I: Designed to initiate the student to the major language skills: listening, speaking, reading and writing.

CHI 1120 AS-LANG 4(4,1)
Elementary Chinese Language and Civilization II: PR: CHI 1120 or equivalent. Continuation of CHI 1120.

CHI 1140H AS-LANG 4(4,0)
Honors Elementary Chinese Language and Civilization I: PR: Honors students or C.I. 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.

CHI 1141H AS-LANG 4(4,0)
Honors Elementary Chinese Language and

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Civilization II: PR: Honors student or C.I.
Continuation of CHI 1140H

CHM 1020 AS-CHEM 3(3,0)
Concepts in Chemistry: PR: MAC 1105 or MGF 1106. Concepts will be examined to provide insight into the significant role that chemistry plays in our culture. Intended as a general education course.

CHM 1032 AS-CHEM 3(3,0)
General Chemistry: PR: MAC 1105, MGF 1106 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward COH and PA majors.

CHM 1032L AS-CHEM 1(0,3)
General Chemistry Laboratory: CR: CHM 1032. An introductory study of physical and chemical properties of elements and compounds.

CHM 2045C AS-CHEM 4(3,1)
Chemistry Fundamentals I: PR: High school chemistry or CHM 1032. Basic physical theory of chemical reactivity, atomic structure, chemical bonding, periodicity, stoichiometry, equilibria, thermodynamics, and kinetics.

CHM 2045H AS-CHEM 4(3,3)
Honors Chemistry Fundamentals I: PR: High school chemistry and admission to University Honors Program. Same as CHM 2045C with honors-level content.

CHM 2046 AS-CHEM 3(3,0)
Chemistry Fundamentals II: PR: CHM 2045C.
Continuation of CHM 2045C.

CHM 2046H AS-CHEM 4(3,3)
Honors Chemistry Fundamentals II: PR: CHM 2045C Honors. Same as CHM 2046 with honors-level content.

CHM 2046L AS-CHEM 1(0,3)
Chemistry Fundamentals Laboratory: PR: CHM 1032 or CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry.

CHM 2205 AS-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.

CHM 2210 AS-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.

CHM 2211 AS-CHEM 3(3,0)
Organic Chemistry II: PR: CHM 2210. Continuation of CHM 2210.

CHM 2211L AS-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.

CHM 3120C AS-CHEM 5(3,6)
Analytical Chemistry: PR: CHM 2046, 2046L. Laboratory practices of classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems.

CHM 3212L AS-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.

CHM 3410 AS-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.

CHM 3411 AS-CHEM 3(3,0)
Physical Chemistry II: PR: CHM 3410. Continuation of CHM 3410.

CHM 3411L AS-CHEM 2(0,6)
Physical Chemistry Laboratory: PR: CHM 3120C 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.

CHM 4130C AS-CHEM 4(2,6)
Advanced Analytical Laboratory Technique: PR: CHM 2211, CHM 3120C and CHM 3411. A lecture-laboratory course designed to give in-depth coverage to modern methods of analysis including electrochemistry, spectroscopy, and separation techniques.

CHM 4220 AS-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.

CHM 4610 AS-CHEM 3(3,0)
Inorganic Chemistry: CR: CHM 3411. A discussion of descriptive inorganic chemistry based on various bonding theories, thermodynamics, and kinetics.

CHM 4610L AS-CHEM 2(0,6)
Inorganic Chemistry Laboratory: PR: CHM 4610. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry.

CHM 4615 AS-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.

CHM 4914C AS-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.

CHM 4930 AS-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.

CHM 5225 AS-CHEM 3(3,0)
Advanced Organic Chemistry: PR: CHM 2211. Theoretical and physical organic concepts of organic systems from the perspective of modern structural theory, thermodynamics, and kinetics.

CHM 5235 AS-CHEM 3(3,0)
Applied Molecular Spectroscopy: PR: CHM 3120C and CHM 2211. Determination of chemical structure through interpretation of UV, IR, NMR and Mass Spectra.

CHM 5305 AS-CHEM 3(3,0)
Applied Biological Chemistry: PR: CHM 2211. 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.

CHM 5450 AS-CHEM 3(3,0)
Polymer Chemistry: PR: CHM 2211. An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered.

CHM 5451C AS-CHEM 3(1,5)
Techniques in Polymer Science: PR: CHM 2211

and CHM 3410. A laboratory and lecture course designed to introduce students to the major polymerization mechanisms along with polymer characterization and processing methods using modern instrumentation.

CHM 5580 AS-CHEM 3(3,0)
Advanced Physical Chemistry: CR: 3411 and PR: MAC 2313. Selected topics of thermodynamics, kinetics, quantum mechanics, and structure.

CHS 1440 AS-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.

CHS 3501 AS-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).

CHS 3505C AS-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.

CHS 3511C AS-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.

CHS 3514C AS-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.

CHS 3530C AS-CHEM 4(2,6)
Forensic Analysis of Controlled Substances: PR: 'C' grade or better in CHM 3120C, CHM 3410, CHM 2211 & L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances.

CHS 3533C AS-CHEM 3(2,3)
Forensic Biochemistry I: PR: 'C' or better in BSC 2010C, PCB 3063 & L, and PCB 3233 & L. Introduction to the concepts and procedures of contemporary forensic biochemistry, including the identification of body fluids and the use of genetic markers to establish identity.

CHS 3540C AS-CHEM 2(1,3)
Fire and Debris Analysis I: PR: CHM 3120C and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence.

CHS 3595 AS-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.

CHS 3949 AS-CHEM 0(0,8)
Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded S/U.

CHS 4200 AS-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.

CHS 4506C AS-CHEM 3(2,3)
Forensic Investigation Technology: PR: A grade of "C" or better in CHS 3511C. Modern technology applied to forensic investigation.

CHS 4515C AS-CHEM 4(2,6) Forensic Crime Scene Investigation: PR: Grade of "C" or better in CHM 3120C, CHS 3511C, CHS 3530C, CHS 3533C and CHS 4506C. Procedures for the investigation of arson, explosives, and crime scenes.	tics.	
CHS 4532 AS-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.	CJE 3001 HPA-CJ/LS 3(3,0) Careers in Criminal Justice: PR: CCJ 3024. Introductory course with focus on components of the Criminal Justice process (law enforcement, courts, and corrections) and employment opportunities within the criminal Justice system.	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.
CHS 4534C AS-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.	CJE 3444 HPA-CJ/LS 3(3,0) Crime Prevention: PR: CCJ 3024. An overview and analysis of crime prevention strategies used in the private and public sectors	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.
CHS 4537 AS-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.	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.	CJT 3804 HPA-CJ/LS 3(3,0) Security Administration: Discussion of modern security administration and the security-law enforcement interface, emphasizing a systems approach and utilizing the design of a security plan for a plant.
CHS 4541C AS-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.	CJE 4014 HPA-CJ/LS 3(3,0) Police and Society: PR: CCJ 3024. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture.	CJT 3819 HPA-CJ/LS 3(3,0) Physical Security: PR: C.J. major or minor or C.I./CCJ 3024. Concepts and procedures for the development, implementation, and management of a physical security program and its application to assets protection.
CHS 4591 AS-CHEM 4(0,4,0) Forensic Science Internship: PR: Senior standing, within 8 hrs. of completion of degree requirements, and 2.5 overall GPA. Credit for full-time work (15 weeks; 600 hours) for a professional forensic laboratory. This course may be repeated for credit.	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.	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.
CHS 5503 AS-CHEM 3(3,0) Topics in Forensic Science: PR: C.I. Will include the history of Forensic Science and current issues such as Digital Evidence.	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	CJT 3842 HPA-CJ/LS 3(3,0) Special Security Problems: Review and application of basic security principles to retail security, transportation/cargo security, utility security, computer security, and other special security situations.
CHS 5518 AS-CHEM 3(3,0) The Forensic Collection and Examination of Digital Evidence: PR: Adv topics in Forensic Science. This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures.	CJE 4630 HPA-CJ/LS 3(3,0) Serial Murder and Criminal Justice: PR: CCJ 3014. Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution.	CJT 4843 HPA-CJ/LS 3(3,0) Risk Management in Criminal Justice/Private Security: PR: CJT 3804. This course examines the concept of risk management in a criminal justice context.
CHS 5596 AS-CHEM 3(3,0) The Forensic Expert in the Courtroom: PR: CHS 3533C, CHS 6535, or CHS 6536. A study of the uses of technically and scientifically trained expert witnesses at trial.	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.	CLA 3850 AS-PHIL 3(3,0) Classical Mythology: PR: ENC 1102 and either HUM 2211, 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.
CJC 3010 HPA-CJ/LS 3(3,0) The Corrections and Penology: PR: CCJ 3024 or C.I. Theories, structures, and methods of institutional and non-institutional processing and treatment of convicted criminals and juvenile offenders.	CJE 4663 HPA-CJ/LS 3(3,0) Crime Analysis I: PR: CCJ 4152. Provides the essential data analysis skills necessary to effectively analyze crime, understand crime data structures and the problems inherent in crime data.	CLA 3851 AS-PHIL 3(3,0) Comparative Mythology: PR: ENC 1102 and either HUM 2230, REL 2300, WOH 2022, LIT 2120, or CLA 3850. Common themes found in the myths of various cultures; theories of their origins, meaning and value in human experience.
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.	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.	CLP 3004 AS-PSYCH 3(3,0) Behavioral Self Control: PR: PSY 2012. Application of behavioral and biofeedback techniques to self-regulation.
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.	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.	CLP 3143 AS-PSYCH 3(3,0) Abnormal Psychology: PR: PSY 2012 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior.
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.	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.	CLP 3302 AS-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.
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 prac-	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	CLP 3413 AS-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.
	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	CLP 3467C AS-PSYCH 3(2,2) Interpersonal Effectiveness and Group Psychotherapy: PR: PSY 2012. Psychological

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aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth.

CLP 4134 AS-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.

CLP 4314 AS-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.

CLP 4402C AS-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.

CLP 5166 AS-PSYCH 3(3,0)
Advanced Abnormal Psychology: Consideration of classification, causation, management and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory.

CLP 5187 AS-PSYCH 3(3,0)
Mental Health and Aging: PR: Post-bac or Graduate 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.

CMC 4240 AS-R/TV 3(1,2)
Corporate/Institutional Video: PR: RTV 3200, RTV 3260C (RTV 3260 may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation.

COM 2347C AS-COMM 1(1,1)
Sports Speaking and Interviewing: PR: SPC 1600. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U.

COM 3011C AS-COMM 3(1,2)
Communication and Human Relations: PR: COM 3311. Introduction to semantics; symbols and meaning and the relationship with human behavior.

COM 3110 AS-COMM 3(3,0)
Business and Professional Communication: PR: Majors only, SPC 1600C or C.I. Theoretical and practical training in effective presentational speaking for business and professions.

COM 3120 AS-COMM 3(3,0)
Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies.

COM 3311 AS-COMM 3(3,0)
Communication Research Methods: PR: STA 2023. Investigation of research methods used in communication. Understanding and interpretation of original research emphasized.

COM 3330 AS-COMM 3(3,0)
Computer Mediated Communication: PR: CGS 1060C; major status in RTV, Ad/PR, Journalism, Organizational or Interpersonal Communication. Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations.

COM 3701 AS-COMM 3(3,0)
Humor in Communication: Designed for upper divi-

sion organizational and interpersonal communication majors, course probes the involvement of humor in language, message transmission, cognition, and social functioning.

COM 4014 AS-COMM 3(3,0)
Gender Issues in Communication: PR: SPC 1600 and Junior Standing. A study of how communication exchanges, both verbal and non-verbal, differ between men and women, and how these differences are manifested.

COM 4461 AS-COMM 3(3,0)
Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts.

COM 4462 AS-COMM 3(3,0)
Conflict Management: PR: COM 3311. The study of communication in everyday conflicts.

COP 2200 ECS-EECS 3(3,0)
Computer Programming: PR: College algebra and trigonometry or equivalent. Problem definitions, algorithms, flow charts, digital computer programming using a higher level language (FORTRAN). Not open to Computer Science Majors.

COP 2500C ECS-EECS 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.

COP 3223 ECS-EECS 3(3,0)
Introduction to Programming with C: Equivalent to EGN 3210. Programming in C including arrays, pointer manipulation and use of standard C math and IO libraries.

COP 3330 ECS-EECS 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

COP 3346 ECS-EECS 3(3,0)
Unix Programming: PR: Knowledge of a high level language. Unix file system, shells, shell programming, filters and program development in Unix.

COP 3402C ECS-EECS 3(3,0)
Systems Software: PR: COT 3960. Concepts of assembly language. Design and development of assemblers, linkers, loaders, lexical analyzers and compilers.

COP 3502C ECS-EECS 3(3,0)
Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion.

COP 3502H ECS-EECS 3(3,0)
Honors Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion.

COP 3503C ECS-EECS 3(3,0)
Computer Science II: PR: COP 3502C and COP 3330. Continuation of Computer Science I. Introduction to object-oriented design, data structures, traversal algorithms and program correctness.

COP 3503H ECS-EECS 3(3,0)
Honors Computer Science II: PR: COP 3502H, COP 3330. Continuation of Honors Computer Science I. Object oriented design, data structures, traversal algorithms and program correctness.

COP 3530C ECS-EECS 3(3,0)
Computer Science III: PR: COT 3960 Foundation Exam. Algorithm design and analysis for tree, list, set, relational and graph data models; effects of representation on algorithmic complexity. Introduction to parallel implementations.

COP 4020 ECS-EECS 3(3,0)
Programming Languages I: PR: COP 3530C. Survey of programming languages (LISP, MODULA, SIMULA, SMALLTALK, ADA, CLU). Basic concepts underlying programming languages: data typing, data abstraction, binding, parameter evaluation, concurrency, functional programming.

COP 4232 ECS-EECS 3(3,0)
Software Systems Development: PR: COT 3960 (Foundation Exam) and COP 3503. The principles, processes and methods for developing large software systems in object-oriented programming languages, such as Ada and C++.

COP 4520 ECS-EECS 3(3,0)
Concepts of Parallel and Distributed Processing: PR: COP 3530C, COP 3402C. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms.

COP 4521 ECS-EECS 3(3,0)
Projects in Parallel and Distribution Processing: PR: COP 4520. Research and projects related to emerging architectures, computational models, languages and environments for parallel and distributed computation.

COP 4600 ECS-EECS 3(3,0)
Operating Systems: PR: COP 3402C and COP 3530C. The function and organization of operating systems, process management, virtual memory, and file management.

COP 4610L ECS-CEE 3(0,3)
Operating Systems Laboratory: PR: COP 3503C. CR: EEL 4882. Exercises in the configuration, development, management and analysis of operating systems: OS Kernel support for semaphores and multi-tasking; security in a distributed heterogeneous environment.

COP 4710 ECS-EECS 3(3,0)
Database Systems: PR: COP 3530C. Storage and access Structures, database models and languages, related database design, and implementation techniques for database management systems.

COP 4910 ECS-EECS 3(3,0)
Frontiers in Information Technology: PR: COP 4610L, CET 4741L. Research into leading edge information technologies that have a high likelihood of affecting the work place in the two to five year time frame.

COP 5021 ECS-EECS 3(3,0)
Program Analysis: PR: COP 4020 and COT 4210. Syntactic and Semantic analysis of programs. Theoretical and practical limitations, attribute evaluation, data flow analysis, program optimization, intermediate representations code generation. Tools to automate analysis.

COP 5537 ECS-EECS 3(3,0)
Network Optimization: Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportation, web and other applications.

COP 5611 ECS-EECS 3(3,0)
Operating Systems Design Principles: PR: COP 4600. Structure and functions of operating systems, process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies.

COP 5711 ECS-EECS 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.

COT 3100C ECS-EECS 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.	CPO 3103 AS-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.	Mayan region of southern Mexico, Belize, Guatemala, and El Salvador.
COT 3100H ECS-EECS 3(3,0) Honors 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.	CPO 3104 AS-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.	CRW 1001 AS-ENG 3(3,0) Imaginative Writing for Non-English Majors: An introduction to imaginative writing for non-English majors. Students will explore a variety of traditional and non-traditional forms of imaginative writing.
COT 3960 ECS-EECS 0(1,0) CS Foundation Exam: PR: COP 3502C AND COT 3100C. Foundation examination for computer science majors. Required before taking COP 3530C, and COP 3402C and other 4000 level courses. Graded S/U.	CPO 3132 AS-POLS 3(3,0) Canadian Studies: A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy.	CRW 2100 AS-ENG 3(3,0) Fiction Writing: PR: CRW 3013. English majors in creative writing specialize in fiction writing; advanced group analysis and criticism of work produced by individual students.
COT 4110 ECS-EECS 3(3,0) Tools for Algorithm Analysis: PR: COP 3530C and COT 3100C. Tools from discrete and continuous mathematics for analyzing complexity of algorithms. Order notation use and manipulation.	CPO 3403 AS-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.	CRW 2300 AS-ENG 3(3,0) Theory and Practice of Poetry Writing: PR: CRW 3013, English or English Education major, Junior standing, or C.I. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism.
COT 4210 ECS-EECS 3(3,0) Discrete Computational Structures: PR: Admission to major or C.I., and COT 3100C, MAC 2312. Review of discrete structures, introduction to automation theory, computational complexity, analysis of algorithms, computability theory, and formal languages.	CPO 3403H AS-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	CRW 3010H AS-ENG 3(3,0) Honors Creative Writing: PR: Honors GEP completion and consent of the Burnett Honors College. Theory and techniques of literary genres with honors level content; practice and critique of original writing by peers and critical reading of established authors.
COT 4500 ECS-EECS 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.	CPO 3614 AS-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.	CRW 3013 AS-ENG 3(3,0) Creative Writing for English Majors: PR: ENC 1102 and English or English Education major, Junior standing, or C.I. The theory and techniques of literary genres; practice and critique of original writing by peers; critical reading of established authors.
COT 4810 ECS-EECS 3(3,0) Topics in Computer Science: PR: COP 3530C AND COP 3402C. A range of topics from the field of Computer science; application of oral and written communication skills; social, ethical and moral issues of computing.	CPO 4062 AS-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.	CRW 3120 AS-ENG 3(3,0) Fiction Writing Workshop: PR: CRW 2100, CRW 3013 and Junior standing. An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory.
COT 5310 ECS-EECS 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.	CPO 4074 AS-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.	CRW 3211 AS-ENG 3(3,0) Creative Nonfiction Writing: PR: CRW 3013 and English or English Ed major 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.
COT 5405 ECS-EECS 3(3,0) Design and Analysis of Algorithms: PR: COT 4210 and COT 4110. Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis.	CPO 4123 AS-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.	CRW 3310 AS-ENG 3(3,0) Poetry Writing Workshop: PR: ENC 1102 and CRW 2300 or CRW 3013. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory.
COT 5507 ECS-EECS 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.	CPO 4303 AS-POLS 3(3,0) Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region.	CRW 3311 AS-ENG 3(3,0) Structure of Verse: PR: ENC 1102. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, scansion, and poetic rhetorical devices.
COT 5510 ECS-EECS 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.	CPO 4643 AS-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.	CRW 3410 AS-ENG 3(3,0) Writing Scripts: PR: CRW 3013 or C.I. Theory and practice of writing scripts for film and TV.
COT 5520 ECS-EECS 3(3,0) Computational Geometry: CR: COT 5405. Geometric searching, point location, convex hulls, proximity problems, Voronoi diagrams, spanning trees, triangulation, intersection arrangement applications.	CPO 4710 AS-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.	CRW 3540 AS-ENG 3(3,0) Literary Magazines: PR: CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature.
CPO 3034 AS-POLS 3(3,0) Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations.	CPO 4754 AS-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.	CRW 4114 AS-ENG 3(3,0) History of Prose Style: PR: ENC 1102. A review of English prose style from 1611 to 1960.
	CPO 4784 AS-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.	CRW 4122 AS-ENG 3(3,0) Advanced Fiction Writing Workshop: PR: CRW 3120. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit.
	CPO 5334 AS-POLS 3(3,0) Contemporary Politics of the Mayan Region: PR: Senior, post-bac or graduate status. Analysis of issues affecting all peoples living in the contemporary	CRW 4123 AS-ENG 3(3,0) Science Fiction Writing: PR: CRW 3013. Study of

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science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments.

CRW 4224 AS-ENG 3(3,0)
Advanced Nonfiction Workshop: PR: CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit.

CRW 4320 AS-ENG 3(3,0)
Advanced Poetry Writing Workshop: PR: CRW 3013 and CRW 3310, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4616 AS-ENG 3(3,0)
Advanced Scriptwriting Workshop: PR: CRW 3410. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. May be repeated for credit.

CRW 5020 AS-ENG 3(3,0)
Graduate Writing Workshop: Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher

CRW 5056 AS-ENG 3(3,0)
Form and Theory of Nonfiction: PR: Admission the M.A. program in English or Honors in the Major status. Studies in literary nonfiction from three perspectives: the critic, the practicing writer, and the theorist. Reading includes memoir, personal essay, criticism, and theory.

CRW 5932 AS-ENG 3(2,1)
Teaching Creative Writing: PR: C.I. Creative writing practicum. May be repeated for credit.

CWR 3201 ECS-CEE 3(3,0)
Engineering Fluid Mechanics: CR: EGN 3343. Fundamentals of fluid mechanics with hydraulic applications: fluid properties, hydrostatics, dimensional analysis, energy, momentum, continuity, and steady flow.

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.

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.

CWR 4812C ECS-CEE 3(2,2)
Water Resources Design: PR: CWR 4101C; CWR 4203C. Project course for the design of storm water and sewer transmission systems using local and state regulations.

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.

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.

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.

DAA 2100 AS-THEA 3(2,2)
Theatre Modern Dance: PR: DAA 2200C & DAA 2201C or C.I. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures.

DAA 2200C AS-THEA 3(2,2)
Ballet I: PR: Restricted to B.F.A. Theatre performance/musical theatre majors. CR: TPP 3650, THE 2020, TPP 2110. Fundamentals of Classical Ballet; includes practical dance work as well as dance history lectures.

DAA 2201C AS-THEA 3(2,2)
Ballet II: PR: TPP 2110, THE 2020, TPP 3650, DAA 2200C, B.F.A. musical theatre/performance major. An in-depth study of classical ballet technique, including principles, theory, and practice technique.

DAA 2520C AS-THEA 3(2,1)
Theatre Tap Dance: PR: Theatre Major or Departmental Consent. Exploration of form, style, and technique in the basic fundamental movements of tap dance. May be repeated for credit.

DAA 2540 AS-THEA 3(2,2)
Theatre Dance: PR: DAA 2200C, DAA 2201C or C.I. Specialized study of Theatre Dance styles of the 1920s to the 1980s. Demonstration and performance of students highlighting segments of Broadway shows. May be repeated for credit.

DAA 2570C AS-THEA 3(2,2)
Theatre Jazz Dance: PR: DAA 2200C, TPP 2170C, B.F.A. performance/musical Theatre major. Introduction of the basic movements of American Jazz Dance, including practical class work and Jazz Dance history.

DAA 2571C AS-THEA 3(2,2)
Theatre Jazz Dance II: PR: DAA 2570C, B.F.A. musical Theatre major. In-depth study of Jazz Dance as a major style of dance, using theory and practice in jazz technique.

DAA 2640 AS-THEA 3(2,2)
Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit.

DAE 3370 ED-TLP 3(1,2)
Dance and Rhythmics: The development of skill proficiency and instructional strategies in rhythmics and dance techniques, and fundamental movement patterns for grades K-12.

DEP 2004 AS-PSYCH 3(3,0)
Developmental Psychology: PR: PSY 2012. The effects of genetic, psychological, maturational, and social factors on behavior throughout the life cycle.

DEP 3202 AS-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.

DEP 3464 AS-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.

DEP 5057 AS-PSYCH 3(3,0)
Developmental Psychology: PR: Graduate admission or C.I. Psychological aspects of development including intellectual, social, and personality factors.

EAB 3703 AS-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.

EAB 3705C AS-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.

EAB 5765 AS-PSYCH 3(3,0)
Applied Behavior Analysis with Children and Youth: PR: DEP 5057 and EXP 5445 or C.I. Advanced survey of principles, procedures, and techniques of applied behavior analysis, with special attention to applications with children and youth.

EAS 3010 ECS-MMAE 1(0,3)
Fundamentals of Aerospace Flight: PR: Sophomore standing. The history of human flight. Introduction to atmospheric flight and space flight. Guest speakers/field trips to aerospace facilities; laboratory experience.

EAS 3101 ECS-MMAE 3(3,0)
Fundamentals of Aerodynamics: PR: EML 3701. Fundamentals of inviscid, incompressible flow over aerodynamic shapes. Theories include potential flow concepts and classical methods as they apply to airfoils, finite wings, etc.

EAS 3404C ECS-MMAE 3(2,3)
Discrete Control in Aerospace Vehicles: PR: EML 3312C. Discrete control aspects of Aerospace Vehicles. Digital controller, Design, State-Space Representation, Z-transform, system response.

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. Spaceborne instrumentation.

EAS 3706 ECS-MMAE 3(3,0)
Structure and Properties of Aerospace Materials: PR: CHS 1440 or CHM 2045 and MAC 2282 or MAC 2312. Atomic structure, bonding, crystal structures, solidification, phase transformations, heat treatment, mechanical behavior, specific aerospace materials, materials design

EAS 3800C ECS-MMAE 3(2,3)
Aerospace Engineering Measurements: PR: EGN 3343 and EML 3601. Theory, calibration and use of instruments. Measurement techniques, data analysis, report writing. Laboratory topics related to aerospace engineering.

EAS 3810C ECS-MMAE 2(1,3)
Design of Aerospace Experiments: PR: EAS 3800C and EML 3701. Extension of EAS 3800C. Design of experiments in aeronautic/aerospace systems with emphasis on project team activity.

EAS 4105 ECS-MMAE 3(3,0)
Flight Mechanics: PR: EAS 3101 and EML 3312C. Analysis of aircraft performance, static and dynamic stability and automatic control systems. Design for performance, handling, and stability.

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.

EAS 4200 ECS-MMAE 3(3,0)
Flight Structures: PR: EML 3034 and EML 3601. Fundamental structural and dynamic design of aircraft and space vehicle components. Classical and finite

element methods.

EAS 4210 ECS-MMAE 3(3,0)

Space Structural Dynamics: PR: EAS 4200 and EML 3312C. Analytical mechanics and linear system theory. Modern approach to control of lumped parameter systems. Review of space structure applications. Use of finite element methods.

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.

EAS 4400 ECS-MMAE 3(3,0)

Spacecraft Attitude Dynamics: PR: EML 3312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters.

EAS 4505 ECS-MMAE 3(3,0)

Orbital Mechanics: PR: EGN 3321, MAP 2302. Two-body problem, orbital equations, orbital transfer, earth satellite operation.

EAS 4700C ECS-MMAE 3(1,6)

Aerospace Design I: PR: EAS 3810C. 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.

EAS 4710C ECS-MMAE 3(1,6)

Aerospace Design II: PR: EAS 4700C. Continuation of the design process in the team building and testing of a prototype/model of an airplane, spacecraft, system or device.

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.

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.

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.

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.

EAS 5407 ECS-MMAE 3(3,0)

Mechatronic Systems: PR: EML 3804C or EAS 3404C. Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications.

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.

ECM 5135 ECS-EECS 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.

ECM 5741C ECS-EECS 3(2,3)

Microcomputer-based Monitoring and Control Systems: PR: EEL 3342C; EEL 4767C or C.I.

Machine language programming; software development aids; systems design; interfacing considerations.

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.

ECO 2013H BA-ECON 3(3,0)

Honors Principles of Economics I: PR: Open to Honors Students only. Same as ECO 2013 with honors-level content.

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.

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.

ECO 3101 BA-ECON 3(3,0)

Intermediate Price Theory: PR: ECO 2013 and ECO 2023. Theoretical study of the behavior of households, firms, and the markets in which they operate with issues and applications.

ECO 3203 BA-ECON 3(3,0)

Aggregate Economic Conditions Analysis: PR: ECO 2013 and ECO 2023. A study of the measurement, analysis, and control of aggregate economic activity.

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.

ECO 3401 BA-ECON 3(3,0)

Quantitative Business Tools I: PR: ECO 2023, MAC 1105. Introduction to mathematical and statistical analysis of economics and business problems.

ECO 3411 BA-ECON 3(3,0)

Quantitative Business Tools II: PR: Junior standing, ECO 2013, ECO 2023, and ECO 3401. The use of statistical methods as scientific tools in the analysis of economics and business problems.

ECO 3622 BA-ECON 3(3,0)

American Economic History: PR: ECO 2013 and ECO 2023. Survey of the history of American economic development. Involves application of economic analytical tools to American history.

ECO 3703 BA-ECON 3(3,0)

International Economics: 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.

ECO 3723 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.

ECO 4302 BA-ECON 3(3,0)

Economics of the Environment: PR: ECO 2013, ECO 2023, or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the microeconomic and macroeconomic level.

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.

ECO 4412 BA-ECON 3(3,0)

Economic Statistics and Econometrics: PR: ECO 3411. Concepts and methods of developing, analyzing, and interpreting measures of economic activity, and business and economic change.

ECO 4451 BA-ECON 3(3,0)

Research Methods in Economics: PR: ECO 3401 and ECO 3411. Provide skills in data collection and creation, data analysis, and research presentation.

ECO 4504 BA-ECON 3(3,0)

Economics of the Public Sector: 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.

ECO 4701 BA-ECON 3(3,0)

The Global Economy: PR: ECO 2013 and ECO 2023. Interdependent nature of global economy, and risks and benefits of international economic integration.

ECO 4941 BA-ECON 3(3,0)

Economics Internship: PR: Economics or General Business major; consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U.

ECO 5005 BA-ECON 3(3,0)

Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis.

ECO 5006 BA-ECON 1.5(1.5,0)

Economic Foundations: PR: Acceptance to Graduate Study. Introduction to Micro and Macro Economic Analysis.

ECO 5414 BA-ECON 1.5(1.5,0)

Statistical Foundations: PR: Acceptance to Graduate Study. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference.

ECO 5415 BA-ECON 3(3,0)

Statistics for Business and Economics: PR: Acceptance into the graduate program and MAC 2233. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference.

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.

ECP 3203 BA-ECON 3(3,0)

Contemporary 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.

ECP 3303 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.

ECP 3433 BA-ECON 3(3,0)

Transportation Economics: PR: ECO 2013 and ECO 2023. Economic characteristics and governmental regulation of public carriers. Consideration of com-

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petitive relations between modes of transportation and criteria for public investment in transportation and criteria of public investment in transportation systems.

ECP 4403 BA-ECON 3(3,0)
Business, Government, and Industrial Organizations: 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.

ECP 4603 BA-ECON 3(3,0)
Urban and Regional Economic Problems: PR: ECO 2013 and ECO 2023. Analysis of the location, organization and problems of urban and regional economic activities.

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.

ECS 4003 BA-ECON 3(3,0)
Comparative Economic Systems: PR: ECO 2013 and ECO 2023. An analysis of the fundamental institutions of the American economic system with those of socialist and command economics. Emphasis is placed on performance criteria and economic modeling.

ECS 4013 BA-ECON 3(3,0)
Economic Development: PR: ECO 2013 and ECO 2023. The study of problems, theories, and issues of economic development with reference to the third world.

ECS 4204 BA-ECON 3(3,0)
The Economies of the Pacific Rim: PR: ECO 2013 and ECO 2023. A study of the Asian Economic Miracle examining the relationship between public policies, human resource development, and rapid shared growth.

ECS 4210 BA-ECON 3(3,0)
The Chinese Economy: PR: ECO 2013, ECO 2023. Economic overview of contemporary China, and review of key issues facing the country

ECS 4231 BA-ECON 3(3,0)
The Japanese Economy: PR: Honors Students. ECO 2013 or ECO 2023 or ECO 2013H. A study of the rapid economic transformation of the Japanese economy with a special focus on the role of human resource development.

ECS 4303 BA-ECON 3(3,0)
Economics of European Integration: PR: ECO 2013 and ECO 2023. Presents the development of the European Community, with emphasis on the characteristics of the Single European Act (EC '92).

ECS 4442H BA-ECON 3(3,0)
Honors Economic Development of Mexico and Central America: PR: ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA

EDE 3942 ED-TLP 1-6(0,16)
Internship I (Elementary): PR: EDG 4323, RED 3012, MAE 3810 AND 3811 or MAE 3112. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher.

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.

EDF 1075 ED-ES 3(3,0)
Introduction to Educational Internship: Introduction to educational internship with selected partnership institutions.

EDF 2005 ED-ES 3(3,0)
Introduction to Education: A survey course including an orientation to education careers, ethics, and the historical, philosophical and sociological foundations of education. This course has a field component.

EDF 2283 ED-ES 3(3,0)
Introduction to Applications of Technology in Education: Classroom applications of instructional media including computers.

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.

EDF 3307 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.

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.

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.

EDF 4214 ED-ES 3(3,0)
Classroom Learning Principles: PR: EDF 2283, Junior standing or C.I. Principles of learning as applied to classroom teaching situations, with emphasis on student development, behavior, self-concept and motivation.

EDF 4282 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.

EDF 4603 ED-ES 3(3,0)
Analysis of Critical Issues in Education: PR: EDF 4214 or C.I. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact schooling in a democracy

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.

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.

EDG 2701 ED-ES 3(3,0)
Teaching Diverse Populations: An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience.

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 instruc-

tion for diverse student populations.

EDG 4324 ED-ES 3(3,0)
Teaching Strategies II: PR: EDG 4323 and EDF 4214. Varieties of learning and teaching styles, appropriate methods of teaching thinking skills, problem solving, reading, and writing across the curriculum.

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.

EDG 4948 ED-ES 3(3,0)
Service Learning: PR: Junior standing 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.

EDG 5745 ED-ES 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.

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.

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.

EDS 5356 ED-ERTL 3(2,1)
Supervision of Professional Laboratory Experiences: PR: C.I. Study of the undergraduate professional laboratory experiences program, with emphasis on the role and responsibilities of the Teacher Education Associate or Supervising Teacher.

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.

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.

EEC 3268 ED-CFCS 3(3,0)
Play Development: Explores play development, facilitation, intervention and assessment. Designing play environments is emphasized.

EEC 3301 ED-CFCS 3(3,0)
Active Learning Teaching Strategies: Studies an integrated developmental-interactionist approach to curriculum planning and design. Equipment selection, room arrangements, daily schedules and active learning teaching strategies are emphasized.

EEC 3610 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.

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.

EEC 3940	ED-CFCS	1-2(0,1-2)	selected categories, levels, and degrees of severity of exceptional population.
Integration Internships: Field based placement in which the students will have supervised practice integrating course content areas.			
EEC 4271	ED-CFCS	3(3,0)	
Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers.			
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.			
EEC 4510	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.			
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.			
EEC 4603	ED-CFCS	3(3,0)	
Guidance of Young Children: PR: EEC 3610. Provides students with techniques to guide the behavior of young children.			
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.			
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.			
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.			
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.			
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.			
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.			
EED 3250	ED-CFCS	3(3,0)	
Behavioral Issues of the Emotionally Handicapped: An introduction to functional schema of the field to include behavior management techniques, theories, legal considerations, counseling skills, etiology, prevention and utilization of community services.			
EED 4011	ED-CFCS	4(4,0)	
Introduction to the Emotionally Disturbed: PR: Senior standing. Development and practice of appropriate cognitive, affective, and motor strategies for			
EED 4210	ED-CFCS	3(3,0)	
Curriculum and Program Adaptation, E.H.: Development of highly specialized curriculum and identification, evaluation, modification, and use of curriculum materials and programs for students with emotional handicaps.			
EED 4243	ED-CFCS	3(3,0)	
Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation and evaluation of the IEP, modification of regular education instructional practices, crisis intervention and prevention.			
EEL 3004	ECS-EECS	3(3,0)	
Electrical Networks: PR: PHY 2049, MAP 2302. Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform.			
EEL 3041	ECS-EECS	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.			
EEL 3123C	ECS-EECS	4(3,1)	
Networks and Systems: PR: EEL 3122C. Network functions, frequency domain analysis using Fourier series and transforms, sampling theory and z-transforms.			
EEL 3306	ECS-EECS	3(3,0)	
Semiconductor Devices I: PR: EGN 3373. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models.			
EEL 3307C	ECS-EECS	4(3,3)	
Electronics I: PR: EEL 3306, EEL 3122C. Electronic devices. Analog electronic circuits. Amplifier analysis and design. Frequency effects.			
EEL 3342C	ECS-EECS	3(2,3)	
Introduction to Digital Circuits and Systems: PR: PHY 2049 or C.I. Switching theory and devices. Combinational and sequential logic. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters.			
EEL 3470	ECS-EECS	3(3,0)	
Electromagnetic Fields: PR: EEL 3122C and MAP 2302. Introduction to electric and magnet fields and electromagnetic waves.			
EEL 3520	ECS-EECS	3(3,0)	
Information Theory: PR: MAC 2147. Fundamentals of information theory and communication systems. Topics include: the definition of information, band width and frequency spectrum, systems design, filters, modulations, demodulators, antennas, and wireless communications. Not open to EE or CpE majors.			
EEL 3552C	ECS-EECS	4(3,3)	
Signal Analysis & Communications: PR: EEL 3122C. Signal theory. Fourier series and integral. Design of modulation systems.			
EEL 3657	ECS-EECS	3(3,0)	
Linear Control Systems: PR: EEL 3122C. Control theory. Transfer function modeling. Nyquist criteria, root locus, Bode plots. Design of lead and lag compensation.			
EEL 3801C	ECS-EECS	3(2,3)	
Introduction to Computer Engineering: PR: EGN 3210 or equivalent. CR: EEL 3342C. Introduction to the field of computer engineering. Engineering applications of advanced C-language concepts. C++ topics and applications. Basic computer organization. Assembly language programming			
EEL 4130	ECS-EECS	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.			
EEL 4140C	ECS-EECS	4(3,3)	
Analog Filter Design: PR: EEL 3307C, EEL 3122C. Passive and active analog filter design. May be repeated for credit.			
EEL 4205	ECS-EECS	3(3,0)	
Electric Machinery: PR: EEL 3122C, EEL 3470. Fundamentals of DC and AC electric machines.			
EEL 4216	ECS-EECS	3(3,0)	
Fundamentals of Electric Power Systems: PR: EEL 3122C or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, transmission lines.			
EEL 4309C	ECS-EECS	4(3,3)	
Electronics II: PR: EEL 3307C, EEL 3342C. Ideal Op-Amps and applications. Introduction to Logic Circuits; Bipolar, MOS and CMOS families; Flip-flops and memory cells, comparators and timing circuits: A/D and D/A converters.			
EEL 4314	ECS-EECS	3(3,0)	
Device Electronics for Integrated Circuits: PR: EEL 3306. P.N. Junctions, Bipolar Transistor Analysis, Metal Semiconductor contacts, MOS Systems MOS-FET Analysis and Limitations.			
EEL 4436C	ECS-EECS	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.			
EEL 4440	ECS-EECS	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.			
EEL 4512C	ECS-EECS	4(3,3)	
Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise.			
EEL 4515C	ECS-EECS	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.			
EEL 4518	ECS-EECS	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.			
EEL 4612	ECS-EECS	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.			
EEL 4635C	ECS-EECS	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.			
EEL 4750	ECS-EECS	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.			
EEL 4765C	ECS-EECS	4(3,3)	
Embedded Computer Systems: PR: EEL 4768C,			

UCF Courses and Descriptions

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.

**EEL 4767C ECS-EECS 4(3,3)
Computer System Design I:** PR: EEL 3342C and EEL 3801C. Basic computer organization and design. Computer performance metrics, introduction to processor, memory and I/O organization and design. Assembly language programming and microprocessor based design.

**EEL 4768C ECS-EECS 4(3,3)
Computer System Design II:** PR: EEL 4767C. Continuation of EEL 4767C. Control and datapath design using a hardware description language, micro-programmed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC.

**EEL 4781 ECS-EECS 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.

**EEL 4783C ECS-EECS 3(2,3)
Computer-Aided Engineering Design:** PR: EEL 4882 and EEL 4768C or C.I. Review of currently available CAE tools for digital hardware and software design applications.

**EEL 4791 ECS-EECS 3(2,4)
Telemetry and Space Computer Systems:** PR: EEL 3552C and EEL 3801C, EEL 3657, EEL 3307C, EEL 3470. Telemetry and computer sub-systems are discussed as they are implemented in the space-launch system "inertial upper stages"

**EEL 4832 ECS-EECS 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.

**EEL 4851C ECS-EECS 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.

**EEL 4872 ECS-EECS 3(3,0)
Engineering Applications of Intelligent Systems:** PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures.

**EEL 4882 ECS-EECS 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.

**EEL 4884C ECS-EECS 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.

**EEL 4890 ECS-EECS 3(3,0)
Continuous System Simulation:** PR: EGN 3420, EEL 3657. Continuous systems. Numerical integration algorithms including single step and multistep methods. Use of a continuous simulation program.

**EEL 4914 ECS-EECS 3(2,1)
Senior Design I:** PR: EEL 3307C, EEL 3657, and

EEL 3552C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, ethics, social impact and engineering organizations are considered.

**EEL 4915L ECS-EECS 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

**EEL 5173 ECS-EECS 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.

**EEL 5245C ECS-EECS 3(2,1)
Power Electronics:** PR: EEL 4309C. Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cyclo-converters, applications.

**EEL 5332C ECS-EECS 3(2,1)
Thin Film Technology:** PR: EEL 3306 or equivalent. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices.

**EEL 5352 ECS-EECS 3(3,0)
Semiconductor Material and Device Characterization:** PR: EEL 3306 or C.I. Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films.

**EEL 5353 ECS-EECS 3(3,0)
Semiconductor Device Modeling and Simulation:** PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included.

**EEL 5355C ECS-EECS 4(3,3)
Fabrication of Solid-State Devices:** PR: EEL 3306. Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology.

**EEL 5357 ECS-EECS 3(3,0)
CMOS Analog and Digital IC Design:** PR: EEL 3306 and EEL 4309C. The objective of this course is to present the principles and techniques of the design of analog and digital circuits that are to be implemented in a CMOS technology.

**EEL 5370 ECS-EECS 3(3,0)
Operational Amplifiers:** PR: EEL 4309C. Ideal and non-ideal Op-Amps. Linear applications. Active RC and switched-capacitor filters. Non-linear and other functional circuits. Frequency stability and compensation of Op-Amps.

**EEL 5390 ECS-EECS 3(3,0)
Full-Custom VLSI Design:** PR: EEL 3342C, EEL 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification.

**EEL 5432 ECS-EECS 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.

**EEL 5434 ECS-EECS 3(3,0)
Microwave Circuits and Devices:** PR: EEL 4436C or EEL 5555C. Planar transmission lines; passive microwave circuits; active circuit design using Gunn, IMPATT, FETS, RTDS, etc.; microwave integrated cir-

cuits.

**EEL 5462C ECS-EECS 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.

**EEL 5513 ECS-EECS 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.

**EEL 5517 ECS-EECS 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.

**EEL 5542 ECS-EECS 3(3,0)
Random Processes I:** PR: EEL 3552C and STA 3032. Elements of probability theory, random variables, and stochastic processes.

**EEL 5547 ECS-EECS 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.

**EEL 5555C ECS-EECS 3(2,2)
RF and Microwave Communications:** RF and microwave active circuits microstrip amplifier, oscillator, and mixer design and fabrication. Receiver design, noise, familiarization with network and spectrum analyzers

**EEL 5625 ECS-EECS 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.

**EEL 5630 ECS-EECS 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.

**EEL 5704 ECS-EECS 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.

**EEL 5708 ECS-EECS 3(3,0)
High Performance Computer Architecture:** PR: EEL 4767C. Engineering of high performance computer systems. Memory, processor and control sub-systems design tradeoffs. Virtual and cache memory. Pipelining, vector computing.

**EEL 5722C ECS-EECS 3(3,1)
Field-Programmable Gate Array (FPGA) Design:** PR: EEL 3342C or C.I. FPGA; architectures; design flow; applications; logic synthesis; technology mapping; placement; routing; multi-FPGA systems; multi context; reconfigurable computing; evolvable hardware.

**EEL 5741C ECS-EECS 3(2,3)
Microcomputer-based Monitoring and Control Systems:** PR: EEL 3342C, EEL 4767C, or C.I. Machine language programming; software development aids; systems design; interfacing considerations.

**EEL 5762 ECS-EECS 3(3,0)
Performance Analysis of Computer and Communication Systems:** PR: EEL 4767C, STA

3032. Stochastic modeling and discrete-event simulation; Markov chains; networks of queues; SemiMarkov models; application to multiprocessor systems, switching and multi-user communications.

EEL 5771C ECS-EECS 3(2,3)
Engineering Applications of Computer Graphics: PR: EGN 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments.

EEL 5820 ECS-EECS 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.

EEL 5825 ECS-EECS 3(3,0)
Pattern Recognition: PR: MAP 2302, EGN 3420. Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum decision criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions.

EEL 5860 ECS-EECS 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.

EEL 5874 ECS-EECS 3(3,0)
Expert Systems and Knowledge Engineering: PR: EEL 4872 or C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented.

EEL 5881 ECS-EECS 3(3,0)
Software Engineering I: PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer software for Engineering applications.

EEL 5891 ECS-EECS 3(3,0)
Continuous System Simulation I: PR: EEL 3657 or C.I. Use of state-space techniques, numerical integration, and CSSL programs. Laboratory assignments.

EES 3004 ECS-EECS 3(3,0)
Environmental systems: PR: One semester of college level science, prefer Chemistry or Biology. A technical literacy course in environmental systems for wastewater, drinking water, groundwater, soil, and air treatment for non-engineering majors.

EES 4111C ECS-CEE 3(2,3)
Biological Process Control: PR: EES 4202C or C.I. and CR: ENV 4561. Engineering design, measurements and analysis of biological systems in environmental engineering for water management, bio-energy products, wastewater treatment, and others.

EES 4202C ECS-CEE 3(2,3)
Chemical Process Control: PR: ENV 3001. Engineering design, measurements, and analysis of chemical systems in environmental engineering to control treatment processes such as softening, coagulation, disinfection, scrubbing, neutralization, and others.

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.

EET 2025C ECS-ENT 4(3,2)
Electrical Circuits: PR: DC Circuits or EET 3085C, and MAC 1114, or C.I. 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.

EET 3085C ECS-ENT 4(3,2)
Electricity and Electronics: PR: MAC 1105 and MAC 1114. AC and DC circuits. Basic theorems and circuit analysis techniques. Instruments and measurements. Introduction to integrated circuits.

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.

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.

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.

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.

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.

EET 4359C ECS-ENT 4(3,2)
Digital Communications Systems: PR: EET 4158. Theory and application of techniques utilized in digital data transmission and reception

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.

EET 4548 ECS-ENT 3(3,0)
Power Systems: PR: EET 3085 and EET 2025. 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.

EET 4732C ECS-ENT 3(3,2)
Feedback Control Systems: PR: EET 3716, Physics I and Calculus I. Modeling and analysis of networks and control systems. Stability and compensation considerations, using root locus, Nichols chart and Bode plots. Simulation techniques, system components.

EET 4915C ECS-ENT 3(1,4)
Senior Design Project: PR: Electronics Engineering Technology senior entering anticipated graduation semester or C.I. Individual or group project involving project definition planning, development, test and evaluation. Progress reports, final oral presentation and final written report required.

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.

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.

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.

EEX 3241 ED-CFCS 3(3,0)
Methods for Academic Skills for Exceptional Students: PR: EEX 2010, EEX 3864. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I.

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.

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.

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.

EEX 3864 ED-CFCS 6(0,16)
Internship I: PR: EDG 4323, RED 3012, EEX 2010, EEX 3241. Satisfactory completion of the portfolio. Internship assignment 2 days a week under a certified exceptional education teacher. Half in elementary, half in secondary. Graded S/U.

EEX 3940 ED-CFCS 3(3,0)
Internship I Exceptional Education: PR: EDG 4323, RED 3012, EEX 2010, EEX 3241, MAE 2801. Student teaching exceptional education in secondary school setting under the supervision of a certified classroom teacher.

EEX 4003 ED-CFCS 3(3,0)
Teaching Exceptional Students: PR: EDG 4323. Development and practice of effective teaching and management strategies for elementary regular classroom teachers to use in working with mild disabilities.

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.

EEX 4066 ED-CFCS 3(3,0)
Curriculum and Instructional Strategies for Special Needs Students: PR: EEX 2010, EEX 4054, EEX 3241, EDG 4323, RED 3012, LAE 4314, MAE 2801. Development of highly specialized techniques and curriculum materials to be used with students with emotional, learning, cognitive and physical disabilities.

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.

EEX 4751 ED-CFCS 3(3,0)
Parent Involvement in Education: This course pre-

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pare students to successfully interact with and involve parents in their child's education.

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.

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.

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.

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.

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.

EGM 3373H ECS-EECS 4(4,0)
Principles of Electrical Engineering: PR: PHY 3049, MAP 3302, Honors program. Fundamental laws of electrical circuits analysis; fundamentals of electronics and power systems. Honors level content.

EGN 1006C ECS-MMAE 1(1,1)
Introduction to the Engineering Profession: PR: New students status or C.I. Overview of academic and professional requirements in various engineering disciplines.

EGN 1007C ECS-ECS 1(1,2)
Engineering Concepts and Methods: PR: New student status or C.I., EGN 1006C and ENC 1101; CR: SPC 1016. Introduction to the use of computer and applications software in solving engineering problems. Introduction to the concepts of engineering design through the use of teams: engineering communication; engineering professionalism and ethics.

EGN 1036C ECS-MMAE 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.

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.

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.

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.

EGN 3210 ECS-EECS 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.

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.

EGN 3310H ECS-CEE 3(3,0)
Engineering Analysis-Statics (Honors): PR: PHY 2048; CR: MAC 2312 or MAC 2282. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit.

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.

EGN 3321H ECS-CEE 3(3,0)
Engineering Analysis - Dynamics Honors: PR: Honors college, EGN 3310. Kinematics and kinetics of particles and rigid bodies; mass and acceleration; work and energy; impulse and momentum

EGN 3331 ECS-CEE 3(3,0)
Mechanics of Materials: PR: EGN 3310; 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.

EGN 3343 ECS-MMAE 3(3,0)
Thermodynamics: PR: MAP 2302, CR: EGN 3321. Work, heat, and energy transformations. Relation of properties. Laws, concepts, and modes of analysis common to all applications of thermodynamics in engineering.

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.

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.

EGN 3373 ECS-EECS 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.

EGN 3373H ECS-EECS 3(3,0)
Principles of Electrical Engineering Honors: PR: PHY 2049, CR: MAP 2302. Fundamentals of electrical circuits and analysis. Fundamentals of electronics and AC power systems, transformers, electromechanics and rotating machines.

EGN 3420 ECS-EECS 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.

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.

EGN 3704 ECS-CEE 2(2,0)
Engineering and the Environment: PR: CHS 1440 and MAC 2312. Process engineering for air, energy, water, and land environment and the role of engineering in control of these environments.

EGN 3843 ECS-ECS 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.

EGN 4033 ECS-ECS 3(3,0)
Technology and Social Change: PR: History/Humanities Sequence or C.I. Review of existing theories of social change, analysis of the role of technology as related to social change, and study of contemporary events in technology and their possible impact on society.

EGN 4412C ECS-MMAE 3(1,5)
Interdisciplinary Design I: PR: Industrial: EIN 4364C; Comp and Elect: EEL 3307C, EEL 3657, EEL 3552C, EEL 3801C; Aero: EAS 3810C, CR: EML 3312C, EAS 3404C; Comp Sci: COT 3960, COP 3503C; Mech: EML 3500, EML 3701, EML 3303C, CR: EML 3312C, EML 3804C. 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.

EGN 4413C ECS-MMAE 3(1,5)
Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I May be repeated for credit.

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.

EGN 4706C ECS-MMAE 3(2,4)
Small Satellite Payloads and Integration: PR: EML 3303 OR EAS 3800 OR EEL 3801 OR ESI 4523. 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.

EGN 4707C ECS-ECS 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.

EGN 4813 ECS-ENT 3(3,0)
Science in History: Examination of the reciprocal relations of science and society from ancient to recent times.

EGN 4814 ECS-ENT 3(3,0)
Technology in History: PR: History/Humanities sequence or C.I. Important developments in engineering and technology and their effect on society and our socio-economic processes.

EGN 4816 ECS-ENT 3(3,0)
Technology Analysis: PR: C.I. Student is introduced to scientific and analytical methods of decision making. Basic modeling, statistical methods and computer usage.

EGN 4823 ECS-ENT 3(3,0)
Topics in Urban Development: Production, distribu-

tion, and consumption of various commodities. Engineering relationships to distribution, internal structure, function of urban developments, interrelationships of engineering, social, economic, and cultural phenomena.

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.

EGN 4825 ECS-ENT 3(3,0)
Environment and Society: PR: C.I. Environmental factors of importance to people's interaction with the environment; engineering and non-engineering measures to insure improvement and maintenance of environmental quality. Not for engineering students.

EGN 4830 ECS-ENT 3(3,0)
Telecommunications: Telecommunications and its role in contemporary local, national, and international society.

EGN 4931H ECS-ECS 3(3,0)
Engineering Honors Seminar: PR: 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.

EGN 4933 ECS-ECS 1(1,0)
Professional Engineering Practice: PR: Senior standing or C.I. Seminars dealing with current and future global issues within the engineering profession.

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.

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.

EGN 5840 ECS-ECS 3(3,0)
Small Rocket Applications for Teachers: PR: Admission to Martin Marietta/UCF Academy. Earth and space environments, rocket propulsion, meteorological and environmental measurements, payload launch procedures, orbits and trajectories, safety, model rocket experiments, field trips, student science experiments.

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.

EGN 5858C ECS-IEMS 3(2,2)
Introduction to Rapid Prototyping: PR: Basic knowledge and/or experience in CAD/CAM technology or C.I. Topics fundamental to rapid prototyping and automated fabrication technologies. Actual design and fabrication of a part using in-house laboratory facilities.

EIN 3304 ECS-IEMS 2(2,0)
Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility.

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.

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.

EIN 4116C 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.

EIN 4118C ECS-IEMS 3(2,3)
Industrial Engineering Applications of Computers: PR: EGN 3210 or high level programming language. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises.

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.

EIN 4243C ECS-IEMS 3(2,2)
Human Engineering: PR: EIN 3314C; Senior standing. Man/machine systems; design and conduct of human engineering studies.

EIN 4305C 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.

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.

EIN 4364C ECS-IEMS 3(2,2)
Industrial Facilities Planning and Design: PR: EIN 3314C, EIN 3354, EIN 4391C. CR:EIN 4333C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments.

EIN 4391C ECS-IEMS 3(2,2)
Manufacturing Engineering: PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics.

EIN 4400 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.

EIN 4411C 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).

EIN 4891C ECS-IEMS 3(2,3)
Industrial Engineering Senior Design Project: PR: EIN 4116C, Senior standing. Capstone design course; application of IEMS techniques to real-world design applications.

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 profes-

sionals providing services in technically-oriented organizations.

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.

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.

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.

EIN 5251 ECS-IEMS 3(3,0)
Human-Computer Interaction: Usability Evaluation: Usability paradigms/principles; cognitive walk-throughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques; query techniques; laboratory techniques; and field study approaches.

EIN 5255 ECS-IEMS 3(3,0)
Interactive Simulation: PR: Post-Baccalaureate status or C.I. Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment.

EIN 5317 ECS-IEMS 3(3,0)
Training System Design: PR: seniors, post bac or graduate standing or CI. How human performance deficiencies should be addressed from a systems design point of view. Manpower, personnel, and training considerations will be examined

EIN 5356 ECS-IEMS 3(3,0)
Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle.

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.

EIN 5381 ECS-IEMS 3(3,0)
Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support.

EIN 5388 ECS-IEMS 3(3,0)
Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages.

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.

EIN 5415C ECS-IEMS 3(2,2)
Tool Engineering and Manufacturing Analysis: PR: EIN 4411C. Tool materials and design, tolerance technology, theory of metal cutting, and machineability.

EIN 5602C ECS-IEMS 3(2,2)
Expert Systems in Industrial Engineering: Overview of basic concepts, architecture and construction of expert systems in IE. Intelligent simulation training systems, case studies and problems. Laboratory exercises.

EIN 5607C ECS-IEMS 3(2,2)
Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4411C or EML 4535C; or C.I.

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Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control.

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.

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.

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.

ELD 4320 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.

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.

EMA 3012C ECS-MMAE 3(2,2)
Experimental Techniques in Mechanics and Materials: PR: EGN 3365. Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treatment, mechanical testing (hardness, tensile, impact, etc.

EMA 3124 ECS-MMAE 3(3,0)
Structure and Properties of Alloys: PR: EGN 3365. Relation of properties to microstructure and applications of major ferrous and non-ferrous alloys.

EMA 4223 ECS-MMAE 3(3,0)
Deformation and Fracture of Materials: PR: EGN 3365. Plastic deformation, strengthening mechanisms, fatigue, fracture, and creep of materials.

EMA 4413 ECS-MMAE 3(3,0)
Electronic Properties of Materials: PR: EGN 3365. Electronic processes in solids. Electrical, magnetic, and optical properties of solids. Electron energies in solids. Superconducting materials.

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.

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.

EMA 4701C ECS-MMAE 3(2,4)
Materials Performance in Space Applications: PR: EGN 3365. Laboratory failure analysis of materials within space-related environments.

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.

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.

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.

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.

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.

EMA 5317 ECS-MMAE 3(3,0)
Materials Kinetics: PR: Materials Thermodynamics. Topics include Arrhenius law, free energy, Johnson-Mehl equations, homogenous vs. heterogeneous reactions, mixing, electrodeposition, thermal analysis in kinetics. Graded SU.

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.

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.

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

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.

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.

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.

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.

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.

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.

EME 2040 ED-ERTL 3(3,0)
Technology for Educators: Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues.

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.

EME 5051 ED-TLP 3(3,0)
Technologies of Instruction & Information Management: PR: Acceptance into Ed Media program or C.I. Theories and practices in utilizing instructional media and information technologies. Emphasis on new and emerging technologies and their effects on the school and media program.

EME 5052 ED-ERTL 3(3,0)
Electronic Resources for Education: PR: EME 5051 or C.I. Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom.

EME 5054 ED-ERTL 3(3,0)
Instructional Systems Technology: A Survey of Applications: Applications of instructional technology in settings other than public schools. Survey of facilities, programs, and services in business, industry, religion, government, higher education, and medical settings.

EME 5056 ED-ERTL 3(3,0)
Communication for Instructional Systems/Process: Principles of written and oral communications for instructional technologists; development of assertiveness and interpersonal skills; conducting training programs for employees; creating hard copy materials.

EME 5057 ED-ERTL 3(3,0)
Communication for Instructional Systems/Application: PR: EME 5056. Applications of technology, communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction.

EME 5208 ED-TLP 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.

EME 5225 ED-TLP 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.

EML 5408 ED-ERTL 3(3,0) Computer Applications in Instructional Systems: PR: EME 2040 or C.I. Introduction to applications for the design, production, and management of interactive courseware within instructional systems.	EML 4142 ECS-MMAE 3(3,0) Heat Transfer: PR: EML 3701. Conduction, radiation, and convection heat transfer. Basic energy balances emphasized. Steady state and transient problems, analysis and design of simple heat exchangers.	EML 5066 ECS-MMAE 3(3,0) Computational Methods in Mechanical, Materials and Aerospace Engineering: PR: EML 3034. Error Norms, interpolation and extrapolation, quadratures and adaptive quadratures, solutions of linear and non-linear systems of equations, functional approximation, solution of ODE's and MWR.
EME 5810 ED-TLP 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 repeated 3 times for credit.)	EML 4220 ECS-MMAE 3(3,0) Vibration Analysis: PR: EGN 3321 and EML 3601. Undamped and damped vibration of single degree freedom systems. Forced vibration. Transient response. Multiple degree of freedom systems. Normal modes.	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.
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.	EML 4260 ECS-MMAE 3(3,0) Dynamics of Machinery: PR: EML 3262C and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects; balancing of rotating and reciprocating masses; cam dynamics.	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.
EML 3034 ECS-MMAE 3(3,0) Modeling Methods in Mechanical and Aerospace Engineering: PR: EGN 1111C, MAP 2302, high level programming language; CR: EGN 3321. Computer aided modeling of mechanical and aerospace systems. Solution methods. Curve fitting. Optimization. Case studies with applications to MAE design.	EML 4264 ECS-MMAE 3(3,0) Vehicle Dynamics: PR: EML 3262C and EML 4220. Basic mechanics governing vehicle dynamics, performance and handling; acceleration, braking, ride, cornering, suspension, steering, rollover.	EML 5152 ECS-MMAE 3(3,0) Intermediate Heat Transfer: PR: EML 4142, EML 5713, EML 5060. An intermediate-level course dealing with heat and mass diffusion, boundary layer problems, and radiation from real bodies. Emphasis on combined modes, numerical methods.
EML 3101 ECS-MMAE 3(3,0) Thermodynamics of Mechanical Systems: PR: EGN 3343. Applied thermodynamics, availability analysis, thermodynamics of reactive and non-reactive mixtures, thermodynamic relations of properties. Thermodynamic design analysis of complete mechanical systems.	EML 4304C ECS-MMAE 2(1,3) Thermo-Fluids Measurements: PR: EML 3303C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments.	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.
EML 3262C ECS-MMAE 3(2,2) Kinematics of Mechanisms: PR: EGN 3321. Graphical, mathematical, and computer-aided kinematics, analysis, and synthesis of basic mechanisms.	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.	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.
EML 3303C ECS-MMAE 3(2,3) Mechanical Engineering Measurements: PR: EGN 3343, CR: EML 3601. Theory, calibration and use of instruments. Measurement techniques, data analysis, report writing. Laboratory topics related to mechanical engineering.	EML 4501C ECS-MMAE 3(1,6) Engineering Design I: PR: EML 3500, EML 3701 and EML 3303C. Application of the design process in the team solution of a state-of-the-art problem. Aerospace, mechanical, thermo-fluid, or material problems are considered.	EML 5228C ECS-MMAE 3(3,0) Modal Analysis: PR: EML 3303, EML 4220, and EML 5060. Theoretical basis. Measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures. Modeling.
EML 3312C ECS-MMAE 3(2,3) Feedback Control: PR: EGN 3321, MAP 2302, EGN 3373. Mathematical Modeling of Dynamic Systems: Transient and Steady State Response; Root Locus and z-transform Methods; Discrete Systems Analysis; Controller Design.	EML 4502C ECS-MMAE 3(1,6) Engineering Design II: PR: EML 4501C. Continuation of the design process in the team building and testing of a prototype. A test plan and a test report are completed.	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.
EML 3500 ECS-MMAE 3(3,0) Machine Design and Analysis: PR: EML 3601. Application of the principles of mechanics of materials to the design of mechanical elements.	EML 4535C ECS-MMAE 3(2,3) CAD/CAM: PR: EGN 3343, EML 3034, and EML 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.	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.
EML 3601 ECS-MMAE 3(3,0) Solid Mechanics: PR: EGN 3310; 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.	EML 4600 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3101 and EML 4142. Heating, ventilation, air-conditioning, and refrigeration principles and systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems.	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.
EML 3701 ECS-MMAE 3(3,0) Fluid Mechanics I: PR: MAP 2302, EGN 3321, EGN 3343. Basic principles of continuum fluid mechanics. Integral and differential forms of governing equations, fluid statics, dimensional analysis, measurements, internal flows.	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.	EML 5290 ECS-MMAE 3(3,0) Introduction to MEMS & Micromachining: PR: Graduate standing or C.I. Introduction of Micro-Electro-Mechanical-Systems (MEMS) and micromachining (microfabrication) methods. Etching and etching mask. Basics of silicon micromachining processing. Fundamentals of bulk micromachining. Thin film formation and surface micromachining. Microplating and LIGA process. Nonlithographic micromachining process including laser. May be repeated for credit.
EML 3804C ECS-MMAE 3(2,3) Digital Control in Mechatronics: PR: EML 3312C. Discrete microprocessor control of mechatronics dynamic systems using state-space representation: Digital controllers: Design for mechatronic applications	EML 5025C ECS-MMAE 3(2,2) Engineering Design Practice: PR: C.I. The course is designed to familiarize students with basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software.	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
EML 4005 ECS-MMAE 3(3,0) Design in Nature and Engineering: PR: EGN 3343 and EML 3601. Design for function and invention, in both engineering and nature: economy, form, beauty, energy, mechanism, structure, evolution in nature.	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.	

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and polymers. The course will focus on fundamental principles involved in structures and properties of the materials, and their applications in MEMS.

EML 5292 ECS-MMAE 3(3,0)
Fundamental Phenomenon and Scaling laws in Miniature Engineering Systems: PR: EML 5060, EML 5211, or CI. 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.

EML 5311 ECS-MMAE 3(3,0)
System Control: PR: EML 3312C; CR: EML 5060. Modern control theory for linear and non-linear systems: controllability and observability. Linear state feedback and state estimators, compensator design.

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.

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.

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.

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.

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.

EML 5606 ECS-MMAE 3(3,0)
HVAC Systems Engineering: PR: EML 3101, EML 4142, EML 3034. Heating, ventilation, air-conditions and refrigeration principles, system design and analysis. May be repeated for credit.

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.

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.

EMR 4362 ED-HSW 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.

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.

ENC 1101 AS-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. Course is graded with "A," "B," "C," "NC" and "F."

ENC 1101H AS-ENG 3(3,0)
Honors Freshman Composition I: PR: Score of 60+ on TSWE of SAT or C.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. Course is graded with "A," "B," "C," "NC" and "F." Honors-level content.

ENC 1102 AS-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. Course is graded with "A," "B," "C," "NC" and "F."

ENC 1102H AS-ENG 3(3,0)
Honors Freshman Composition II: PR: ENC 1101H with a grade of "C" or better or C.I. 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. Course is graded with "A," "B," "C," "NC" and "F."

ENC 2127 AS-ENG 3(3,0)
Grammar and Composition: A systematic study of grammar and mechanics to improve editing for clarity and accuracy in writing.

ENC 2210 AS-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.

ENC 2411C AS-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.

ENC 3211 AS-ENG 3(3,0)
Theory and Practice of Technical Writing: PR: ENC 1102, Junior standing, or C.I. Provides definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3211H AS-ENG 3(3,0)
Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3241 AS-ENG 3(3,0)
Writing for the Technical Professional: PR: ENC 1102, Junior standing, or C.I. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3241H AS-ENG 3(3,0)
Honors Writing for the Technical Professional: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3250 AS-ENG 3(3,0)
Professional Writing: PR: ENC 1102, Junior standing, and 12 upper division hours in the student's

major. Major elements of professional writing with emphasis on composition of reports, proposals, letters, and memos.

ENC 3310 AS-ENG 3(3,0)
Magazine Writing I: PR: 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.

ENC 3311 AS-ENG 3(3,0)
Advanced Expository Writing: PR: ENC 1102. Practice of expository writing directed to general reader.

ENC 3905 AS-ENG 3(3,0)
Directed experience in Writing: PR: ENC 1102, C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit.

ENC 3942 AS-ENG 3(3,0)
Journal Writing Practicum: An interdisciplinary practicum in journal writing as a literary genre and a means of self-expansion.

ENC 4215 AS-ENG 3(3,0)
Techniques of Technical Publications: PR: C.I. Study of new publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction. Introduction of graphics: style, format, layout, and boardwork. Should be taken concurrently with ENC 4294.

ENC 4218 AS-ENG 3(3,0)
Visual Elements in Documentation: PR: ENC 4293. Study and preparation of visuals and graphics in technical writing and documentation; use of computer graphics; slides; transparencies; charts; graphs; drawings.

ENC 4265 AS-ENG 3(3,0)
Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. This course addresses the special demands of writing for the computer industry.

ENC 4275 AS-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.

ENC 4280 AS-ENG 3(3,0)
Technical Writing Style: PR: C.I. Review of dictionaries and articles in various technical fields. Recognition of specialized vocabulary. Familiarity with reading level indexes and standards.

ENC 4293 AS-ENG 3(3,0)
Technical Documentation I: PR: ENC 3211 or ENC 3241. Practice in translating highly technical information to organized documentation: hardware, software, military specifications. Theory of designing and organizing technical manuals. Preparation of proposals. Interview skills.

ENC 4294 AS-ENG 3(3,0)
Technical Documentation II: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student's particular field. Should be taken concurrently with ENC 4215.

ENC 4295 AS-ENG 3(3,0)
Technical Documentation III: PR: ENC 4294. Designing, writing, and illustrating manuals, e.g., repairs, maintenance or users. Project supervised by a member of a student's major department or technical editor of a corporation.

ENC 4312 AS-ENG 3(3,0)
Theory & Practice Persuasive Writing: PR: ENC 1102. A study of the theory and practice of persuasion, including logical emotional and ethical appeals.

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ENC 4360	AS-ENG	3(3,0)	Nature Writing: PR: ENC 1102. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing.
ENC 4414	AS-ENG	3(3,0)	Studies in Hypertext: PR: ENC 1102. Hypertext and the architectures of large scale websites used by industry, government, and education
ENC 4415	AS-ENG	3(3,0)	Digital Rhetorics and The Modern Dialectic: PR: ENC 1102. This online course explores the development of digital/online rhetorics through a close reading and analysis of formative rhetorical texts, modern American fiction and films.
ENC 5214	AS-ENG	3(3,0)	Production and Publication Methods: Theory and practice of production and publication methods for technical writers.
ENC 5216	AS-ENG	3(3,0)	Editing Professional Writing: PR: Graduate status or C.I. The study of major issues in editing, including levels of edit, grammar and mechanics, visuals, style, and the impact of technology
ENC 5219	AS-ENG	3(3,0)	Graphics in Technical Writing: A study of the creation and editing of graphics in technical documents.
ENC 5225	AS-ENG	3(3,0)	Theory and Practice of Document Usability: PR: Graduate standing. Presents theory and practice of how document usability is assessed and improved.
ENC 5237	AS-ENG	3(3,0)	Writing for the Business Professional: PR: Graduate status or C.I. A study of the major document designs for professionals in business, focusing on audience, purpose, style, arrangements, and content
ENC 5245	AS-ENG	3(3,0)	Teaching Professional Writing: 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.
ENC 5256	AS-ENG	3(3,0)	Gendered Rhetoric: PR: Graduate status or C.I. Questions women's and men's linguistic choices, the influence of medium and discipline of discourse, and consequences of status, power, and oppression
ENC 5276	AS-ENG	3(3,0)	Writing/Consulting: Theory & Practice: PR: Graduate status or C.I. The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator).
ENC 5277	AS-ENG	3(3,0)	Teaching Writing With Computers: PR: Graduate standing or C.I. To provide immersion in the theories and practices of writing in electronic spaces including current discourse conventions from speech and print media.
ENC 5306	AS-ENG	3(3,0)	Persuasive Writing: Theory and practice of writing persuasively.
ENC 5335	AS-ENG	3(3,0)	Rhetorical Traditions: PR: Graduate standing or C.I. To provide a foundation for research by familiarizing students with the chronological spectrum practice and theory of rhetoric form classical to contemporary times.
ENC 5337	AS-ENG	3(3,0)	Modern Rhetorical Theory: With special attention to the rhetor-audience relationship, the course studies history and practice of modern rhetorical theory.
ENC 5338	AS-ENG	3(3,0)	The Rhetorics of Public Debate: PR: Graduate standing or C.I. To examine how rhetorical theories further community goals, including activist, political, legislative, and other significant public debates.
ENC 5344	AS-ENG	3(3,0)	Proposal Writing: Theory and practice of writing proposals.
ENC 5425	AS-ENG	3(3,0)	Hypertext Theory and Design: PR: post-bac standing or C.I. Theoretical and practical study of the uses and premises of hypertext.
ENC 5427	AS-ENG	3(3,0)	Hypertext: PR: Senior or Graduate standing. A study of the theory and practice of computer-driven hypertext.
ENC 5474	AS-ENG	3(3,0)	Teaching Practicum: PR: ENC 5705, Graduate 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
ENC 5705	AS-ENG	3(2,1)	Theory and Practice in Composition: PR: Senior standing or C.I. Intensive study of theories of composition, with practical experience in the writing laboratory and in composition classes.
ENC 5945	AS-ENG	3(3,0)	Community Literacy Practicum: PR: Graduate standing or C.I. Designed to deepen theoretical understanding of literacy through participation in a community literacy project.
ENG 3010	AS-ENG	3(3,0)	Practical Criticism: PR: ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism.
ENG 3014	AS-ENG	3(3,0)	Theories and Techniques of Literature Study: PR: ENC 1102, Junior standing, or C.I. Techniques of analysis, theories of interpretation, and application of critical approaches to selected works.
ENG 3073	AS-ENG	3(3,0)	Cultural Studies Literature: PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce "cultural studies."
ENG 4114	AS-ENG	3(3,0)	Literature and Film: PR: ENC 1102 and ENG 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations.
ENG 5009	AS-ENG	3(3,0)	Methods of Bibliography and Research: Bibliographical, library and systematic approaches to research at the graduate level in language and literature.
ENG 5018	AS-ENG	3(3,0)	Literary Criticism: PR: Graduate standing or C.I. Historical survey of major critics from classical antiquity to the modern era.
ENL 2012	AS-ENG	3(3,0)	English Literature I: PR: ENC 1102. Beowulf to 1798.
ENL 2021	AS-ENG	3(3,0)	English Literature II: PR: ENC 1102. From 1798 to 1914.
ENL 3951	AS-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.
ENL 3951H	AS-ENG	3(3,0)	Orlando Shakespeare Festival Honors: PR: ENC 1102. 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.
ENL 4101	AS-ENG	3(3,0)	English Novel: PR: ENC 1102 and ENG 3014. Analysis of major English novelists.
ENL 4220	AS-ENG	3(3,0)	English Renaissance Poetry and Prose: PR: ENC 1102 and ENG 3014. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly & others.
ENL 4230	AS-ENG	3(3,0)	18th Century Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of literature in English: 1660-1880. May be repeated for credit.
ENL 4240	AS-ENG	3(3,0)	English Romantic Writers: PR: ENC 1101, ENC 1102 and ENG 3014. Study of English poets and essayists of the romantic period, such as Wordsworth, Coleridge, Hazlitt, Lamb, Byron, Shelley and Keats.
ENL 4253	AS-ENG	3(3,0)	The Victorian Age: Poetry: PR: ENC 1102 and ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossettis, and Emily Bronte.
ENL 4262	AS-ENG	3(3,0)	Nineteenth Century British Prose: PR: ENC 1102 and ENG 3014. Essays and fiction of the nineteenth century.
ENL 4273	AS-ENG	3(3,0)	Modern British Literature: PR: ENC 1102 and ENG 3014. Major writers of modern British literature.
ENL 4311	AS-ENG	3(3,0)	Chaucer: PR: ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works.
ENL 4333	AS-ENG	3(3,0)	Shakespeare Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of Shakespeare's plays. May be repeated for credit.
ENL 4341	AS-ENG	3(3,0)	Milton and His Age: PR: ENC 1102 and ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes, shorter poems and selected prose.
ENL 5006	AS-ENG	3(3,0)	British Literature: Medieval to Modern: PR: Graduate standing or consent of instructor. 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.
ENL 5237	AS-ENG	3(3,0)	Eighteenth Century Studies: Reading, analysis, and discussion of literature in English:1660-1880.
ENL 5250	AS-ENG	3(3,0)	The Victorian Age: Poetry: PR: Graduate standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others.
ENL 5256	AS-ENG	3(3,0)	Victorian Literature: PR: Graduate Standing or C.I. A study of the major prose works and selected poetry of British Victorian writers.
ENL 5335	AS-ENG	3(3,0)	Studies in Shakespeare: PR: Senior standing or C.I. A selection of representative plays, with emphasis on Shakespeare's development as an artist: aesthetics of

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dramatic literature.

ENL 5347 AS-ENG 3(3,0)

The Age of Milton: PR: 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.

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. May be repeated for credit

ENV 4112C ECS-CEE 3(2,2)

Air Pollution Measurements Lab: PR: . Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods.

ENV 4120 ECS-CEE 3(3,0)

Air Pollution Control: PR: ENV 3001 and CWR 3201. Air resources engineering design, and operation of air pollution control systems.

ENV 4122C ECS-CEE 3(2,2)

Air Pollution Control Design: Project course on design of air pollution control equipment and systems.

ENV 4300C ECS-CEE 3(2,2)

Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill.

ENV 4341 ECS-CEE 3(3,0)

Solid Waste Management: PR: ENV 3001 or C.I. **Engineering design,** planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes.

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.

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.

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.

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.

ENV 4563 ECS-CEE 3(3,0)

Environmental Control Systems: PR: EGN 3343, 3373. CR: ENV 4561. Analysis and design of process control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration.

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.

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.

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.

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.

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, SOCs and other contaminants using oxidation, membranes, ion exchange, precipitation, sorption, and other processes.

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.

ENV 4004C AS-BIOL 4(2,6)

General Entomology: PR: BSC 2010C and BSC 2011C, or C.I. Biology of insects: identification, taxonomy, physiology, behavior, and ecology.

EPH 5335 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.

ESE 3940 ED-TLP 3-16(0,3-1)

Internship I Ñ Secondary: PR: EDG 4323 and C.I. Student teaching in a secondary school under the supervision of a certified classroom teacher.

ESE 4943 ED-TLP 7-12(0,35)

Internship II Ñ Secondary: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars.

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.

ESI 4221 ECS-IEMS 3(3,0)

Empirical Methods for Industrial Engineering: PR: STA 3032. Application of empirical methods for industrial engineering problem solving.

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.

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.

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.

ESI 4523C ECS-IEMS 3(2,3)

Systems Simulation: PR: STA 3032, EGN 3210 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used.

ESI 5219 ECS-IEMS 3(3,0)

Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, nonparametric stats and ANOVA.

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.

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.

ESI 5315 ECS-IEMS 3(3,0)

Research Foundations for IE and OR Modeling: PR: MAP 2302; ESI 5219 or equivalent; ESI 4312; and C.I. Research foundations for IE/OR modeling, including constructive analysis of published research, methods of proof, research foundations in decision theory, optimization, and related areas.

ESI 5316 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.

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.

ESI 5419C ECS-IEMS 3(2,2)

Engineering Applications of Linear and Nonlinear Optimization: PR: ESI 4312 or ESI 5316. Course covers linear and nonlinear optimization applications in production planning, staffing, engineering design, distribution networks, and other engineering areas. Focuses on practicing OR analysts.

ESI 5451 ECS-IEMS 3(3,0)

Network Based Project Planning, Scheduling, and Control: PR: ESI 4312 or ESI 5316. Probabilistic and deterministic approaches for planning, scheduling, and controlling complex, large-scale projects. PERT, CPM, resource leveling, risk analysis.

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.

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.

EST 3543C ECS-ENT 3(2,2)

Programmable Logic Applications and Device Integration: PR: MAC 1105, CET 2123C. Builds on knowledge of logic fundamentals programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocol.

EST 4502C ECS-ENT 4(3,2)

Metrology and Instrumentation: PR: ETG 3541 or equivalent; EET 3085C or equivalent; and MAC 2253 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.

ETC 4206	ECS-ENT	3(3,0)	charge machines. May be repeated for credit.
Construction Estimating: PR: MAC 1105, MAC 1114, EGN 1111C or equivalent, ETC 4241C, ETC 4242. Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits. Software packages are utilized.			
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.			
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.			
ETC 4243	ECS-ENT	4(4,0)	
Building Systems: PR: CET 2123C, EET 3085C, PHY 2053C, ETM 4220, ETG 3533C, ETC 4241C, ETC 4242. Mechanical, electrical and electronic equipment and systems used in commercial/multi-story buildings. Fundamentals of air conditioning, lighting, and control systems are covered.			
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.			
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.			
ETD 3350C	ECS-ENT	3(2,2)	
Applied CADD: PR: Engineering Drawing and some CADD background. This course in computer-aided drafting/design provides the student with the opportunity to approach detailed and intricate drafting/design problems from a computer perspective.			
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.			
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.			
ETG 4950C	ECS-ENT	3(1,4)	
Senior Design Project: PR: ETG 3541, EST 4502C, ETG 3533C or C.I. Engineering Technology senior within 18 semester hours of graduation. Supervised individual or group projects involving project definition, planning, development, testing, and evaluation. Progress reports and a final oral presentation and formal written report are required.			
ETI 3116	ECS-ENT	3(3,0)	
Applied Engineering Quality Assurance: PR: MAC 1105, MAC 1114, and junior standing. Fundamentals of industrial quality control. Technical specifications, measurements standards, inspection, and gaging. Process control techniques.			
ETI 3418C	ECS-ENT	3(3,0)	
Computer Numerical Controls - Machining Applications: PR: MAC 1105 and junior standing. Theory of methods and concepts for machining, computer numerical controls/programs, types of operations, cutting tools, machine tools, and electrical dis-			
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.			
ETI 3651C	ECS-ENT	3(2,2)	
Computer Applications: PR: Junior standing or C.I. Complete and comprehensive use of Microsoft Office software applications for specific engineering uses. Probability and statistics as related to industrial applications.			
ETI 3671	ECS-ENT	2(2,0)	
Technical Economic Analysis: PR: MAC 1105 or equivalent, Junior standing. Analysis of cost elements in technical operations. Basis for comparison of alternatives.			
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.			
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.			
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.			
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.			
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.			
ETI 4382C	ECS-ENT	3(1,4)	
Launch Processing Technology: PR: or CR: ETI 4150 or C.I. Processes and methods in the preparation, integration, and launch of a space payload and launch vehicle. Includes hands-on launch processing activities in a laboratory environment.			
ETI 4448	ECS-ENT	3(3,0)	
Applied Project Management: 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. May be repeated for credit.			
ETI 4635	ECS-ENT	3(3,0)	
Technical Administration: PR: MAC 1105 and 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. May be repeated for credit.			
ETI 4640	ECS-ENT	3(3,0)	
Process Planning and Work Measurement: PR: MAC 1105 and junior standing. Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MTM are covered. May be repeated for credit.			
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.			
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.			
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.			
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.			
ETI 4837	ECS-ENT	3(3,0)	
Technology of Small Space Payloads: PR: PHY 2053C; Calculus I. 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.			
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.			
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.			
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.			
ETM 4232C	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.			
ETM 4331C	ECS-ENT	4(3,2)	
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.			
ETM 4403C	ECS-ENT	3(2,2)	
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.			
ETM 4512C	ECS-ENT	3(2,2)	
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.=			
ETM 4755	ECS-ENT	4(4,0)	
Applied Air Conditioning: PR: ETM 4331C. Analysis			

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of body comfort, psychometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements.

EUH 2000 AS-HIST 3(3,0)
Western Civilization I: A survey of western civilization from ancient to 1648.

EUH 2000H AS-HIST 3(3,0)
Honors Western Civilization I: A survey of western civilization from ancient to 1648. Honors-level content.

EUH 2001 AS-HIST 3(3,0)
Western Civilization II: PR: EUH 2000 or C.I. A survey of western civilization from 1648 to present. May be taken before EUH 2000.

EUH 2001H AS-HIST 3(3,0)
Honors Western Civilization II: A survey of western civilization from 1648 to present. May be taken before EUH 2000. Honors-level content.

EUH 3122 AS-HIST 3(3,0)
Medieval Society and Civilization: PR: EUH 2000 and 2001 or C.I.

EUH 3142 AS-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.

EUH 3235 AS-HIST 3(3,0)
Romanticism and Realism: PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservatism; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism.

EUH 3242 AS-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.

EUH 3281 AS-HIST 3(3,0)
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.

EUH 3315 AS-HIST 3(3,0)
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.

EUH 3411 AS-HIST 3(3,0)
Ancient Rome: PR: EUH 2000 and 2001 or C.I. Romans and their contributions to Western Civilization. Covers traditions of Roman Republic, Carthaginian Wars, Imperial Period.

EUH 3431 AS-HIST 3(3,0)
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.

EUH 3451 AS-HIST 3(3,0)
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.

EUH 3651 AS-HIST 3(3,0)
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.

EUH 4284 AS-HIST 3(3,0)
Fascism and the Totalitarian Dictatorships: PR: EUH 2000 and 2001 or C.I. Totalitarian ideologies, institutions, and practices in Lenin's and Stalin's Russia. Mussolini's Italy, and Hitler's Third Reich; fascist movements in the non-totalitarian states.

EUH 4400 AS-HIST 3(3,0)
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).

EUH 4465 AS-HIST 3(3,0)
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.

EUH 4500 AS-HIST 3(3,0)
English History to 1485: PR: EUH 2000 and 2001 or C.I.

EUH 4501 AS-HIST 3(3,0)
English History: 1485-1815: PR: EUH 2000 and 2001 or C.I.

EUH 4502 AS-HIST 3(3,0)
British History: 1815-Present: PR: EUH 2000 and 2001 or C.I.

EUH 4571 AS-HIST 3(3,0)
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.

EUH 4574 AS-HIST 3(3,0)
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.

EUH 4576 AS-HIST 3(3,0)
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.

EUH 4582 AS-HIST 3(3,0)
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.

EUH 4610 AS-HIST 3(3,0)
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.

EUH 4620 AS-HIST 3(3,0)
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.

EUH 4621 AS-HIST 3(3,0)
War and International Politics in Europe, 1914 to Present: PR: EUH 2000 and 2001 or C.I. The relationship of the European Great Power from the outbreak of WWI to the present.

EUH 4674 AS-HIST 3(3,0)
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.

EUH 5247 AS-HIST 3(3,0)
Colloquium in Europe from 1919-1939: Reading

and class discussion of the literature on selected topics in European history between 1919 and 1939.

EUH 5285 AS-HIST 3(3,0)
Colloquium in Europe Since World War II: Reading and class discussion of the literature on selected topics in European history since WW II.

EUH 5371 AS-HIST 3(3,0)
Colloquium in Spanish History: Reading and class discussion of the literature on selected topics in Spanish history.

EUH 5546 AS-HIST 3(3,0)
Colloquium: British History: PR: Graduate status. Selected topics in British history. May be repeated for credit when content is different. There is no standard syllabus because content is different with each offering.

EUH 5579 AS-HIST 3(3,0)
Colloquium in Soviet Russia: PR: Senior standing or C.I. Reading and class discussion of the literature on selected topics in Russian history, 1911-present.

EUH 5595 AS-HIST 3(3,0)
Colloquium in Czarist Russia: PR: Senior standing or graduate status. Selected topics on the literature of Russia under the Czars prior to 1917.

EUH 5608 AS-HIST 3(3,0)
Colloquium European Intellectual History: PR: Senior standing or C.I. Reading and class discussion of the literature on selected topics of European intellectual history.

EVR 5930 AS-BIOL 1(1,0)
Seminar in Conservation Issues: PR: CI. Contemporary topics stressing a broad base of conservation issues will be the focus of this seminar series. May be repeated for credit, as course content will differ.

EVT 3062 ED-TLP 3(3,0)
Professional Role of the Vocational Teacher: PR: EVT 3371 or C.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.

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.

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.

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.

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.

EVT 4065 ED-TLP 4(4,0)
Principles and Practices of Vocational Education: PR: EVT 3365 or C.I. Study of the history, structure, and current status of vocational education. Achievement of competency in applying principles of vocational education to vocational student organiza-

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tions, advisory committees, and economic development.

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.

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.

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.

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.

EVT 5817 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.

EXP 3204C AS-PSYCH 4(3,2)
Perception: PR: PSY 2012, PSY 3214. Consideration of physical and psychological variables in perceptual phenomena. Lecture/Lab.

EXP 3304 AS-PSYCH 3(3,0)
Motivation: PR: PSY 2012. Psychological and physiological aspects of human motivation.

EXP 3404 AS-PSYCH 3(3,0)
Basic Learning Processes: PR: PSY 2012. Theory and research on learning phenomena.

EXP 3513 AS-PSYCH 3(3,0)
Cognitive Psychology: PR: PSY 2012. Theory and research on attention, memory, complex human learning, and problem solving.

EXP 4507C AS-PSYCH 3(1,4)
Advanced Human Memory and Cognition: PR: or CR: EXP 3513. In-depth coverage of experimental research on human memory and cognition.

EXP 5067 AS-PSYCH 3(3,0)
Human Factors and Aging: PR: Post-bac. Graduate status, or C.I. An overview of issues related to enhancing quality of life of elderly through the implementation of basic human factors principles in environmental and task design.

EXP 5208 AS-PSYCH 3(3,0)
Sensation and Perception: PR: C.I. A study involving human information processing with regard to physical and psychological variables in sensory and perceptual phenomena.

EXP 5256 AS-PSYCH 3(3,0)
Human Factors I: Survey of human factors literature. Introduction to topics including human capabilities and human interfaces with human-machine systems.

EXP 5445 AS-PSYCH 3(3,0)
Psychology of Learning and Motivation: PR: DEP 5057 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.

FIL 1001 AS-FILM 3(3,0)
Cinema Survey: Introductory course that focuses on different approaches to studying cinema.

FIL 1001H AS-FILM 3(3,0)
Honors Cinema Survey: PR: Permission of Honors. Introductory course that focuses on different approaches to studying cinema. Honors-level content.

FIL 1007 AS-FILM 3(3,0)
Foundations of Story: Analysis of dramatic and cinematic narrative structures, both plot and character, from an historical and cultural perspective.

FIL 1008 AS-FILM 3(3,0)
Cinematic Expression/Aesthetics: Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles.

FIL 1009 AS-FILM 3(3,0)
Cinematic Expression for Majors: PR: FIL 1007 of FIL 1XXX (Foundations of Story for Majors). Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, and lighting styles.

FIL 1226 AS-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.

FIL 2107 AS-FILM 3(3,0)
Script Analysis: CR: ENC 1101. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional filmmaking and screenwriting.

FIL 2200 AS-FILM 3(3,0)
Cinematography I: Concepts and tools of cinematography and lighting.

FIL 2201 AS-FILM 3(3,0)
Foundations of Production: Production techniques for non-majors. Introduction to basic techniques used in film making. Students must supply their own video equipment and editing equipment. Any format is acceptable.

FIL 2220 AS-FILM 3(3,0)
Directing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Introduction to processes and techniques of directing.

FIL 2274C AS-FILM 3(3,2)
Editing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems.

FIL 2400 AS-FILM 3(2,2)
History of Motion Pictures: The history of motion pictures as art and industry; from 1895 to the present.

FIL 3006 AS-FILM 3(3,0)
Art of the Cinema: An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound.

FIL 3102 AS-FILM 3(3,0)
Writing for Film and TV: PR: ENC 1102, Junior Standing. Theories and process of screen writing for motion pictures and television. Students learn how to create stories and scripts for the entertainment marketplace.

FIL 3106C AS-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.

FIL 3124 AS-FILM 3(3,0)
Short Script I: PR: Film majors or film minors. Rudiments of writing the short script. Analysis of script

models and examination of differences between long and short forms. Writing scripts for workshops.

FIL 3125 AS-FILM 3(3,0)
Short Script II: PR: Film major, FIL 3124. Advanced writing of short scripts in preparation for Capstone 1 and 2 courses.

FIL 3201C AS-FILM 3(2,4)
Introduction to Film Production: PR: Film majors or minors only. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production.

FIL 3211 AS-FILM 3(3,0)
Sound Design I: PR: Film or Digital Media major. Technical aspects of production and post-production sound recording, editing, and mixing.

FIL 3252C AS-FILM 3(3,1)
Cinematic Expression: PR: FIL 2400. Cinematography using video format; study of fundamentals of motion-picture communication, film structure and storytelling.

FIL 3286C AS-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.

FIL 3287C AS-ART 3(2,4)
Intermediate Animation: PR: Animation majors only, FIL 3286C, and a satisfactory portfolio review or C.I. Focus on 3D computer modeling and animation systems. Hands-on exercise on the type of high-end animation systems used in the film industry. May be repeated for credit.

FIL 3300C AS-FILM 3(3,1)
Film Documentary: PR: Film majors or Cinema Studies major, FIL 3201C or 3XXX (Film Production Tech Workshop). The uses and analysis of the non-fiction film.

FIL 3309 AS-FILM 3(3,1)
Women in Film: PR: Junior standing. A critical examination of how cinematic images of women affect cultural perceptions and an overview of historically significant women filmmakers and related sociopolitical issues.

FIL 3401 AS-FILM 3(3,0)
Film History I: PR: Film majors and FIL 2107. Examines film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers cinema history from 1895 to 1945.

FIL 3402 AS-FILM 3(3,0)
Film History II: PR: Film majors and FIL 3401. Film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers from 1946 to the present.

FIL 3410 AS-ART 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.

FIL 3412 AS-FILM 3(3,0)
Black Cinema: PR: Junior Standing. Development of independent black film movements; theory, aesthetics and criticism of African-American, African-Canadian and African-Caribbean cinema; analysis of selected films.

FIL 3503C AS-FILM 3(3,1)
Film Theory and Criticism I: PR: FIL 2107 and Film or Cinema Studies major. Major film theories to the Second World War Period.

FIL 3504C AS-FILM 3(3,1)
Film Theory and Criticism II: PR: Film majors or

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minors only, FIL 2400. Major film theories from Second World War period to present.

FIL 3510 AS-FILM 3(3,0)
World Cinema Traditions: PR: Cinema Studies or Film major, FIL 3504C. The relationship among film, history, and culture in selected Asian, African, Latin American, and Middle Eastern countries.

FIL 3520 AS-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.

FIL 3521 AS-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.

FIL 3522 AS-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.

FIL 3531 AS-FILM 3(3,0)
Advanced Story Structure Research: PR: Majors only. Early and contemporary theories of story structure. Identification of divergent ideas without dilution, development of new language, and recognition of patterns in complex structures.

FIL 3624 AS-FILM 3(3,0)
Converging Media: PR: FIL 3625. Various technologies and strategies for creative storytelling on the Internet.

FIL 3625 AS-FILM 3(3,0)
Interactive Entertainment: PR: FIL 3201C. 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.

FIL 3922 AS-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. Course may be repeated. Graded S/U.

FIL 4103 AS-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.

FIL 4111C AS-FILM 3(2,3)
Feature/TV Writing I: PR: FIL 3106C. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting.

FIL 4112C AS-FILM 3(2,3)
Feature/TV Writing II: PR: Film major, FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage.

FIL 4113C AS-FILM 3(2,3)
Interactive Writing I: PR: Film major, FIL 3106C. Writing workshop for experienced scriptwriters, cold readings, preparing calling card script, marketing scripts and funding sources.

FIL 4114C AS-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.

FIL 4127C AS-FILM 3(2,2)
Motion Picture Genre: PR: FIL 2400. Analysis and evaluation of films, including their major genres, direc-

tors, styles, and periods.

FIL 4202C AS-FILM 3(2,4)
Intermediate Film Production: PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking.

FIL 4203C AS-FILM 3(2,4)
Capstone I: PR: FIL 4113C, FIL 3625 or FIL 4228. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. Graded S/U.

FIL 4207 AS-FILM 3(3,0)
Episodic Production: PR: Film or Animation Majors. Episodic film production techniques.

FIL 4208 AS-FILM 3(3,0)
Directing II: PR: Film major, FIL 4202C, FIL 2220. Principles and practice in directing narrative and/or documentary motion pictures.

FIL 4210C AS-FILM 3(2,4)
Cinematography II: PR: Film major, FIL 3201C, FIL 2200. Advanced principles and practices of cinematography.

FIL 4211C AS-FILM 3(1,3)
Capstone II: PR: Film major, FIL 4203C. Intensive tutorial guidance, instruction and evaluation of final film projects in post production.

FIL 4212 AS-FILM 3(0,4)
Sound Design: PR: FIL 4207, FIL 4202C. Post-production sound for films and video, including voice over music, music, sound effects, sound design, and automated dialogue replacement. Exercises will be edited and mixed on a computer work station.

FIL 4213 AS-FILM 3(3,0)
Sound Design III: PR: FIL 4212. Advanced aspects of sound mixing and sound editing using advanced protocols and digital format.

FIL 4213C AS-FILM 3(3,2)
Editing II: PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing.

FIL 4223 AS-FILM 3(3,0)
Design for Film: PR: Film major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction.

FIL 4228 AS-FILM 3(3,0)
Directing III: PR: FIL 2220, FIL 4208. Advanced processes and techniques of directing.

FIL 4262C AS-FILM 4(3,2)
Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation.

FIL 4283C AS-ART 3(2,4)
Intermediate Cel Animation: PR: Animation majors only, and a satisfactory portfolio review or C.I. Production from storyboard to composite print. May be repeated for credit.

FIL 4284C AS-FILM 3(3,1)
Non-Linear Editing: PR: Film major and FIL 3201C. Provide basic working knowledge of AVID editing system, to edit assigned projects, give basic understanding of editorial styles and techniques in film storytelling.

FIL 4288C AS-ART 3(2,4)
Advanced Animation: PR: Animation majors only, FIL 3286C, FIL 3287C, 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.

FIL 4289C AS-ART 3(2,4)
Animation Workshop: PR: Animation majors only, FIL 3286C, FIL 3287C, FIL 4288C, and a satisfactory

portfolio review or C.I. A production level course in computer animation that emphasizes all phases of the commercial production process, including storyboard, budgets, client relations, and post-production. May be repeated for credit.

FIL 4411 AS-FILM 3(3,0)
History of Animated Films II: PR: FIL 3410, and Cinema Studies, Art, Animation or Digital Media major. Growth and diversification of American and international animation since 1945.

FIL 4504C AS-FILM 3(2,2)
Genre Writing: PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc.

FIL 4602 AS-FILM 3(3,0)
Film Business: PR: Film major, FIL 4207, FIL 4202C. This is a seminar course taught by a professional in the film industry which deals with issues relating to the organization and production of motion pictures.

FIL 4604 AS-FILM 3(3,0)
The Film Producer: PR: Film major or Cinema Studies major, and FIL 4208. The role of the producer is examined in the context of theatrical film.

FIL 4607 AS-FILM 3(3,0)
Film Production Management: PR: Film major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement.

FIL 5609 AS-FILM 3(3,0)
Film and Internet Business: PR: C.I. Survey of the business of financing and distributing films. Explores various, including feature films, short films, television documents and the Internet.

FIN 2104 BA-FIN 3(3,0)
Personal Finance and Investments: An overview of personal and family financial planning. Topics include housing, investments, insurance, retirement planning, estate planning, financial services, consumer credit, and tax planning.

FIN 3303 BA-FIN 3(3,0)
Financial Markets: PR: FIN 3403. The role of short and long-term financial markets and financial institutions in capital formation and allocation. Theories and mathematics of interest rates.

FIN 3403 BA-FIN 3(3,0)
Business Finance: PR: 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.

FIN 3403H BA-FIN 3(3,0)
Business Finance Honors: PR: ACG 2021, ACG 2071, ECO 2013, admission to the Honors Program. Same as FIN 3403 with honors level content.

FIN 3414 BA-FIN 3(3,0)
Intermediate Corporate Finance: PR: FIN 3403. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined.

FIN 3470 BA-FIN 3(3,0)
Financial Statement Analysis and Small Business Finance: PR: FIN 3403. Emphasis on analytical financial techniques suited to address issues faced by small business. Includes topics on obtaining financing for small businesses.

FIN 3504 BA-FIN 3(3,0)
Investment Analysis: PR: FIN 3403. A survey of investments, including security markets, investment vehicles, and environment. Principles of asset valuation in efficient markets.

FIN 4313 BA-FIN 3(3,0)
Management of Financial Institutions: PR: FIN

3303 and FIN 3403. Analysis of management policies of financial institutions, including assets liability, and capital management. The economics and regulatory influence on competition is considered.

FIN 4324 BA-FIN 3(3,0)
Commercial Bank Management: PR: FIN 3303. Analysis of the intersections of commercial banking policies and an analysis of current approaches to managing specific bank products.

FIN 4424 BA-FIN 3(3,0)
Advanced Topics in Financial Management: PR: FIN 3414 and FIN 4453. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively.

FIN 4453 BA-FIN 3(3,0)
Financial Models: PR: FIN 3403, FIN 3414, and FIN 3504. Mathematical models applied specifically to financial problems, including those models suitable for representation and solutions on computers.

FIN 4514 BA-FIN 3(3,0)
Portfolio Analysis and Management: PR: FIN 3303 and FIN 3504. Portfolio and capital market theory in the determination of rational investment policies. Risk analysis, portfolio analysis, and evaluation techniques.

FIN 4521C BA-FIN 4(3,1)
Applied Portfolio Management 1: PR: FIN 3403, FIN 3504, and CI. 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.

FIN 4522C BA-FIN 4(3,1)
Applied Portfolio Management 2: PR: FIN 4XXX (Applied Portfolio Management 1), and CI. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing.

FIN 4533 BA-FIN 3(3,0)
Speculative Financial Markets: PR: FIN 3303 and FIN 3504. Study of options, futures, forward, and other speculative markets. Investments traded in these markets are examined analytically. Pricing and hedging models are considered.

FIN 4604 BA-FIN 3(3,0)
International Financial Management: PR: FIN 3504. Analysis of the foreign financial methods and investment, currency futures market, capital budgeting, cash management, examination of Eurocurrency market and international bond markets.

FIN 4730 BA-FIN 3(3,0)
Senior Financial Consulting I: PR: FIN 3403, FIN 3303, CR: FIN 3414, FIN 4453. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design and consulting in projects for major corporations. Part 1 of a two course sequence. Students must register for both semesters.

FIN 4731 BA-FIN 3(3,0)
Senior Financial Consulting II: PR: 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.

FIN 4941 BA-FIN 3(0,3)
Finance Internship: PR: Finance Major; consent of department chair. Supervised finance-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U.

FIN 5405 BA-FIN 3(3,0)
Financial Concepts: PR: Acceptance into the graduate program, ACG 5005 and ECO 5005 and ECO 5415 or equivalents. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

FIN 5407 BA-FIN 1.5(1.5,0)
Financial Foundations: PR: Acceptance to Graduate Study, ACG 5005 and ECO 5006. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

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

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.

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.

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.

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.

FLE 5870 AS-LANG 3(3,0)
Methods of Teaching Foreign Languages: PR: Graduate 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.

FLE 5875 AS-LANG 3(3,0)
Computer Application in Teaching Foreign Languages: PR: Graduate Standing or C.I. Survey, analysis, and evaluation of computer software and Internet materials for teaching foreign languages.

FOL 3730 AS-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 Provencal.

FRE 1005 AS-LANG 1(1,0)
French Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, French songs, and opera libretti.

FRE 1120 AS-LANG 4(4,1)
Elementary French Language and Civilization I: Introduces the student to French culture through the

major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language.

FRE 1121 AS-LANG 4(4,1)
Elementary French Language and Civilization II: PR: FRE 1120 or experience with this language. Continuation of FRE 1120.

FRE 2200 AS-LANG 3(3,1)
Intermediate French Language and Civilization I: PR: FRE 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

FRE 2201 AS-LANG 3(3,1)
Intermediate French Language and Civilization II: PR: FRE 2200 or equivalent. Continuation of FRE 2200 with emphasis on French civilization.

FRE 2240 AS-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.

FRE 2270 AS-LANG 8(16,10)
Intermediate French Study Abroad: PR: Elementary French. Intermediate French language and civilization taught in the native environment.

FRE 3300 AS-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.

FRE 3410 AS-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.

FRE 3420 AS-LANG 3(3,0)
French Composition: PR: FRE 2201 or equivalent. Development of skills in composition.

FRE 3423 AS-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.

FRE 3440 AS-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.

FRE 3441 AS-LANG 3(3,0)
Business French II: PR: FRE 3440 or C.I. Introduction to French business language and practices.

FRE 3760 AS-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.

FRE 3780 AS-LANG 3(3,0)
French Phonetics and Diction: French phonology, with emphasis on phonic groupings.

FRE 4421 AS-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.

FRE 4422 AS-LANG 3(3,0)
Advanced French Composition: PR: FRE 3420. Readings and written imitations of modern literary

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styles in the form of themes, sketches, poems, and original stories.

FRE 4471 AS-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.

FRE 4500 AS-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.

FRE 4503 AS-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.

FRE 4782 AS-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.

FRT 4552 AS-LANG 3(3,0)
Structural Analysis of Beckett's Watt: PR: ENC 1102. An intense study of textual criticism and explanations and linguistic analysis of literature with the primary focus on the novel. Course will be taught in English.

FRW 3100 AS-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.

FRW 3101 AS-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.

FRW 3370 AS-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.

FRW 3740 AS-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.

FRW 3752 AS-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.

FRW 3770 AS-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.

FRW 4281 AS-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.

FRW 4310 AS-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.

FRW 4324 AS-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.

FRW 4440 AS-LANG 3(3,0)
French Literature of the Eighteenth Century: PR: FRW 3100. The philosophical movement: Montesquieu, Vauvenargues, Voltaire, Diderot, Buffon.

FRW 4532 AS-LANG 3(3,0)
French Romanticism: PR: FRW 3100. Great poets and dramatists of the Romantic Movement: Hugo, Lamartine, Vigny, Musset, and others.

FRW 4552 AS-LANG 3(3,0)
Nineteenth Century French Literature: PR: FRW 3101. Realism and naturalism.

FRW 4820 AS-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.

FSS 2221C UCF-HOSP 3(3,1)
Quantity Food Preparation: Basic principles of food and beverage preparation, service, and menu development.

FSS 3003 UCF-HOSP 3(3,0)
Culture and Cuisine: PR: FSS 2221C and HFT 3261. The major historical and geographical developments that have affected the creation of the cuisines of the world.

FSS 3124 UCF-HOSP 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.

FSS 3232C UCF-HOSP 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, gard manager, garnishing, and convenience foods and services. Laboratory class.

FSS 4135 UCF-HOSP 3(3,0)
Corporate Contract and Managed Services Organizations: PR: HFT 3261. The unique characteristics of managed services including contracting, commodity purchasing, pricing, and revenue management.

FSS 4286C UCF-HOSP 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.

GEA 4206 ECS-CEE 3(3,0)
Physical Geography of North America: Analysis of the North American landscape as affected by climate, vegetation, and geomorphology.

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.

GEB 2011 BA-MAN 3(3,0)
Management: PR: Junior standing. The interdisciplinary application of the managerial functions of planning, organizing, leading, and controlling. For Non-Business Major ONLY.

GEB 3031 BA-MAN 6(6,0)
The Cornerstone Course: PR: 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.

GEB 3356 BA-FIN 3(3,0)
Introduction to International Business: PR: ECO 2013, ECO 2023, and ACG 2071. Understanding the interdependence of globalized world economy and similarities and dissimilarities between domestic and international business domain.

GEB 3356H BA-FIN 3(3,0)
Introduction to International Business - Honors: PR: honors standing, ECO 2013, ECO 2023, ACG 2071. Understanding the interdependence of globalized world economy and similarities between domestic and international business domain.

GEB 4358 BA-FIN 3(3,0)
International Negotiations and Transactions: PR: Junior standing and admission to CBA. Focuses on providing an understanding of the concepts and skills required for international negotiations and transactions.

GEB 4361 BA-FIN 3(3,0)
Business in the International Environment: PR: FIN 3403, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector.

GEB 4363 BA-FIN 3(3,0)
Export and Import Management: PR: Junior standing and admission to CBA. Focuses on the management of export/import businesses and provides students with knowledge about international trade.

GEB 5941 BA-BUS 1.5(1.5,0)
Professional Business Practicum: PR: Acceptance to Graduate Study. The practicum is to provide a professional business work experience for students entering the MBA program without such experience.

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.

GEO 1200L ECS-CEE 1(0,2)
Physical Geography Laboratory: CR: GEO 1200. Analysis of climatic and meteorology methods topographic and geological maps, landforms, and landscape interpretation.

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.

GEO 2370H ECS-CEE 3(3,0)
Resources Geography (Honors): Analysis of human management of global resources and the resulting impact on the world's environment.

GEO 3151C AS-LS 4(2,4)
GIS for Environmental Studies: PR: CGS 1060C, BSC 2011C. Use of geographic information systems (GIS) for understanding spatial environmental data.

GEO 3470 AS-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.

GEO 4131C 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.

GER 4176C AS-LS 4(2,4) Advanced GIS Applications in Environmental Studies: PR: GEO 3151C. Use of GIS software for environmental applications such as conservation management.	GER 3420 AS-LANG 3(3,0) Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition.	challenges of women as they age.
GER 1005 AS-LANG 1(0,1) German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretti.	GER 3440 AS-LANG 3(3,0) Business German I: PR: GER 2200. Introduction to German business language and practices.	GEY 5600 ED-TLP 3(3,0) Physiology of Aging: PR: BSC 2010C or PCB 3703C or PET 4351 or equivalent. The purpose of this course is to develop the student's understanding of the effects of human aging on various body systems.
GER 1120 AS-LANG 4(4,1) Elementary German Language and Civilization I: Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.	GER 3441 AS-LANG 3(3,0) Business German II: PR: GER 3440. Continuation of Business German I.	GEY 5648 AS-PSYCH 3(3,0) Gerontology: An Interdisciplinary Approach: PR: Post-baccalaureate or graduate status or C.I. The study of aging will be presented from an interdisciplinary and multidisciplinary approach spanning the social sciences and health.
GER 1121 AS-LANG 4(4,1) Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120.	GER 3470 AS-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.	GLY 1030 AS-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.
GER 1130H AS-LANG 4(4,1) Honors 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. Honors level content.	GER 3760 AS-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.	GRA 2111C AS-ART 3(2,4) Graphic Design I: PR: ART 2201C. Basic principles, concepts, and techniques in graphic design and art for visual publication.
GER 1131H AS-LANG 4(4,1) Honors Elementary German Language and Civilization II: PR: GER 1130H or equivalent. Continuation of GER 1130H, with honors-level content.	GER 3780 AS-LANG 3(3,0) German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation.	GRA 2140C AS-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.
GER 2200 AS-LANG 3(3,1) Intermediate German Language and Civilization I: PR: GER 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.	GER 4422 AS-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.	GRA 2190C AS-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.
GER 2201 AS-LANG 3(3,1) Intermediate German Language and Civilization II: PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization.	GER 4510 AS-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.	GRA 3100C AS-ART 3(2,4) Intermediate Graphic Design I: PR: Acceptance in Graphic Design Concentration 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.
GER 2210 AS-LANG 3(3,0) Intensive German Conversation: PR: GER 1121 or C.I. Practical use of the language, leading toward fluency and correctness in speaking.	GER 4520 AS-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.	GRA 3112C AS-ART 3(2,4) Intermediate Graphic Design II: PR: Acceptance in Graphic Design Concentration, ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Further development of studio techniques and problems in graphic design with emphasis on digital prepress.
GER 2240 AS-LANG 3(3,0) German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice.	GEW 3100 AS-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.	GRA 3113C AS-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.
GER 2270 AS-LANG 6(6,0) Intermediate German Study Abroad: PR: GER 1121 or equivalent. Intermediate German language and culture taught in the native environment.	GEW 3101 AS-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.	GRA 4195C AS-ART 3(2,4) Advanced Graphic Design: PR: Acceptance in Graphic Design Concentration, ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3112C, and a satisfactory portfolio review or C.I. Practical studio problems, with emphasis on organization of visual design elements.
GER 2271 AS-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.	GEW 3370 AS-LANG 3(3,0) Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries.	GRA 4196C AS-ART 3(2,4) Special Problems in Graphic Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 4195C, and a satisfactory portfolio review or C.I. Advanced problems in visual design and reproduction. May be repeated for credit.
GER 3100 AS-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.	GEW 3480 AS-LANG 3(3,0) German Post-War Literature: PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II.	GRE 1120H AS-LANG 4(4,0) Elementary Greek Language and Civilization I: Introduces students to Classical Greek Literature and civilization through the study of grammar and syntax and extensive readings of Greek texts.
GER 3272 AS-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.	GEW 4482 AS-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.	GRE 1121H AS-LANG 4(4,1) Elementary Greek Language and Civilization II:
	GEW 4531 AS-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.	
	GEY 3001 HPA-HPA 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.	
	GEY 5007 HPA-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	

UCF Courses and Descriptions

PR: GRE 1120H. Continuation of Elementary Greek I.

GRE 2230H AS-LANG 4(4,0)
Introduction to Greek Literature: PR: GRE 1121H.
 Readings in selected original Greek texts, e.g., Plato's apology. May be repeated for credit.

HBR 1120 AS-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.

HBR 1121 AS-JUD 4(4,0)
Elementary Modern Hebrew Language and Culture II: PR: HBR 1120 or equivalent. Continuation of HBR 1120.

HBR 2200 AS-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.

HBR 2201 AS-JUD 3(3,0)
Intermediate Modern Hebrew II: PR: HBR 2200.
 Further development of modern Hebrew language skills in listening, speaking, reading, and writing.

HBR 3410 AS-JUD 3(3,0)
Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent, CI. Study and practice of contemporary conversational Israeli Hebrew.

HFT 1000 UCF-HOSP 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.

HFT 2220 UCF-HOSP 3(3,0)
Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting.

HFT 2254 UCF-HOSP 3(3,0)
Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, housekeeping, engineering, front desk, and guest services.

HFT 2403 UCF-HOSP 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.

HFT 2444 UCF-HOSP 3(3,0)
Hospitality Information Systems: Impact of management information systems on the hospitality industry; includes development and deployment of property management systems.

HFT 2500 UCF-HOSP 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.

HFT 2750 UCF-HOSP 3(3,0)
Meeting, Convention And Exposition Industry: Overview of meetings, conventions, and expositions including the roles of organizations and people involved in the businesses that comprising this industry.

HFT 3261 UCF-HOSP 3(3,0)
Restaurant Management: PR: HFT 1000 and junior standing or CI. Discussion of the topics integral for the successful management of restaurant and food service organizations.

HFT 3273 UCF-HOSP 3(3,0)
Principles of Resort Timesharing: PR: HFT 1000

and junior standing or C.I. Principles of resort timeshare operations and ownership.

HFT 3313 UCF-HOSP 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.

HFT 3374 UCF-HOSP 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.

HFT 3431 UCF-HOSP 3(3,0)
Hospitality Industry Managerial Accounting: PR: HFT 2403 and junior standing or C.I. Presentation, interpretation, and analysis of internal and external hospitality industry financial reports affecting management decisions using hospitality industry systems of accounting.

HFT 3471 UCF-HOSP 3(3,0)
Hospitality Enterprises I: PR: Financial Accounting, Managerial Accounting, Computer Competency, Junior standing. Acquaints students with presentation, interpretation and analysis of hotel financial reports. Presents hotel operations cost controls. Explores hospitality MIS.

HFT 3511 UCF-HOSP 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.

HFT 3540 UCF-HOSP 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.

HFT 3574 UCF-HOSP 3(3,0)
Food Service Marketing Advertising and Promotion Management: PR: HFT 2500 and HFT 3261. Covers pricing, promotion, menu and product development.

HFT 3600 UCF-HOSP 3(3,0)
Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry.

HFT 3654 UCF-HOSP 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.

HFT 3700 UCF-HOSP 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.

HFT 3741 UCF-HOSP 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.

HFT 3757 UCF-HOSP 3(3,0)
Event Management: PR: HFT 1000 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.

HFT 3770 UCF-HOSP 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.

HFT 3784 UCF-HOSP 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.

HFT 3785 UCF-HOSP 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.

HFT 3802 UCF-HOSP 3(3,0)
Catering Management: PR: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service.

HFT 3807 UCF-HOSP 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.

HFT 3834 UCF-HOSP 3(3,0)
Topics in Restaurant and Foodservice Management: PR: HFT 3261 and FSS 2221C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry

HFT 3933 UCF-HOSP 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.

HFT 3949 UCF-HOSP 1-5(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.

HFT 4250C UCF-HOSP 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.

HFT 4266 UCF-HOSP 3(3,0)
Restaurant Brand Management: PR: HFT 3261 and junior standing or C.I. Exploration of the principles of brand management for the corporate restaurant industry.

HFT 4268 UCF-HOSP 3(3,0)
Case Studies in Restaurant Management: PR: HFT 3261 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and food service management.

HFT 4269 UCF-HOSP 3(3,0)
Case Studies in Multi-Unit Restaurant Management: PR: HFT 3261 Restaurant Management. Application of case study methodology to advanced topics in chain or multi-unit restaurant and foodservice operations.

HFT 4274 UCF-HOSP 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.

HFT 4275 UCF-HOSP 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.

UCF Courses and Descriptions

HFT 4277	UCF-HOSP	3(3,0)	Industry including evaluating management contracts, franchising, and leasing.						
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.									
HFT 4281	UCF-HOSP	3(3,0)	HFT 4473	UCF-HOSP	3(3,0)	with product development in the theme parks and attraction industry.			
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.			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.						
HFT 4294	UCF-HOSP	3(3,0)	HFT 4522	UCF-HOSP	3(3,0)	HFT 4762	UCF-HOSP	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.
Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry.			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.			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			
HFT 4295	UCF-HOSP	3(3,0)	HFT 4532	UCF-HOSP	3(3,0)	HFT 4787	UCF-HOSP	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
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.			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.			HFT 4844			
HFT 4298	UCF-HOSP	3(3,0)	HFT 4645	UCF-HOSP	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.			
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.			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.			HFT 4861			
HFT 4343	UCF-HOSP	3(3,0)	HFT 4717	UCF-HOSP	3(3,0)	Beverage Management: PR: Minimum age of 21 by the first day of class and junior standing. The origin production, storing, marketing, and control of beverages in the hospitality industry.			
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.			Hospitality Operations II: PR: Junior Standing. A survey of tourism, travel agency, airline, convention and trade show operations from both the U.S. and international perspective.			HFT 4864			
HFT 4375	UCF-HOSP	3(3,0)	HFT 4722	UCF-HOSP	3(3,0)	Anheuser Busch Seminar in Quality Brewing and Fine Beer: PR: HFT 1000, HFT 3261. Minimum age of 21. The study of the production and service of malt beverages.			
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.			Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations.			HFT 4949			
HFT 4413	UCF-HOSP	3(3,0)	HFT 4735	UCF-HOSP	3(3,0)	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.			
Technology Applications for Hospitality Management: PR: HFT 2444 Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations.			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.			HIM 3006			
HFT 4425	UCF-HOSP	3(3,0)	HFT 4752	UCF-HOSP	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.			
Financial Analysis for Restaurant Managers: PR: HFT 2403, HFT 3431, and HFT 3261. Topics of unit level economics, budgeting, valuation of restaurant enterprises, ownership models, franchising finance, and securing access to capital through debt and equity markets.			Guest Services Management II: PR: HFT 3540 or C.I. Using decision theory and analytical techniques to create and maintain quality guest services. The emphasis is on strategic implications of quality service management.			HIM 3116C			
HFT 4432	UCF-HOSP	3(3,0)	HFT 4753	UCF-HOSP	3(3,0)	Health Record Organization and Management: PR: HIM 3006C. Nomenclatures/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization			
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.			Convention and Conference Services: PR: HFT 3511 and junior standing or C.I. Provides an in-depth understanding of the acquisition and management of services (food and beverage, audio visual, transportation, etc.) integral to effective convention and conference operations.			HIM 3806L			
HFT 4442	UCF-HOSP	3(3,0)	HFT 4754	UCF-HOSP	3(3,0)	Professional Practice Experience I: PR: Admission to the professional phase of the Health Information Management Program. Interdepartmental experience; master patient index; introduction to health information management departments in selected health care facilities.			
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.			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.			HIM 3816L			
HFT 4453	UCF-HOSP	3(3,0)	HFT 4755	UCF-HOSP	3(3,0)	Professional Practice Experience II: PR: HIM 3806L, HSC 3531. CR: HIM 3116C. Health record assembly and analysis; release of medical information; numbering and filing systems; incomplete record control; retention and retrieval.			
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.			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			HIM 4226C			
HFT 4462	UCF-HOSP	3(3,0)	HFT 4758	UCF-HOSP	3(3,0)	Coding Procedures I: PR: HSC 4550, HSC 3531, or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders.			
Hospitality Industry Finance: PR: HFT 3431 and junior standing or C.I. Working knowledge of finance concepts and theories applicable to the Hospitality			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.			HIM 4256C			
			Product Development in Theme Parks and Attractions: PR: HFT 4755 and junior standing or C.I. The strategic management process associated			Coding Procedures II: PR: HIM 4226C or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; ICD-9-CM;			

UCF Courses and Descriptions

HCPCS; APGs; encoders.

HIM 4344C HPA-HIM 4(3,2)
Health Information Department Management: PR: HIM 3116C; MAN 3025. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning.

HIM 4506 HPA-HIM 3(2,2)
Quality Management: PR: HIM 3116C, HIM 4226C. CR:HIM 4256C. Principles and mechanics of quality improvement; utilization review; case management and risk management.

HIM 4656C HPA-HIM 3(2,2)
Health Information Management Systems: PR: HSA 4193, HIM 4226C. Vitalization of information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts.

HIM 4676 HPA-HIM 3(3,0)
Professional Development and Issues in Health Information Management: PR: HIM 4344C, HIM 4506. Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers.

HIM 4836L HPA-HIM 2(0,4)
Professional Practice Experience III: PR: HIM 3006C, HIM 3116C, HIM 3806L, HIM 4226C. Inpatient coding; health and vital statistics; JCAHO accreditation; indexing; abstracting; medical staff organization and credentialing.

HIM 4837L HPA-HIM 2(0,4)
Professional Practice Experience IV: PR: HIM 4256C; HIM 4344C; HIM 4506; HIM 4836L. Outpatient coding, quality management, utilization review, risk management, transcription, assignment to hospitals and other health care facilities/organizations.

HIM 4838 HPA-HIM 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.

HIS 3462 AS-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.

HIS 3949 AS-HIST 0(0,8)
Cooperative Education in History: PR: Departmental permission required before registering. Cooperative education experience in history. May be repeated. Graded S/U.

HIS 4150 AS-HIST 3(3,0)
History and Historians: PR: C.I. A study of European and/or American historiography. May be repeated once for credit.

HIS 4944 AS-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.

HIS 4970 AS-HIST 3(3,0)
Senior Thesis: Original research paper available to advanced history majors, topics to be selected in consultation with a directing professor.

HIS 5067 AS-HIST 3(3,0)
Introduction to Public History: PR: Graduate standing. Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies.

HIS 5158 AS-HIST 3(3,0)
Classic and Contemporary Historical Thought: PR: Graduate Standing. Course will explore work of important historians influenced by social theory to gain an understanding of their main concepts.

HLP 2701 ED-TLP 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

HLP 4722 ED-TLP 3(2,1)
Teaching Elementary School Health and Physical Education: PR: Admission to Phase II or C.I. Organization, practice, and conduct of health (including drug abuse) and physical education programs in the elementary school. Includes field experience.

HSA 3122 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.

HSA 3170 HPA-HP 3(3,0)
Health Care Finance: PR: HSC 3122, ACG 2021 and ACG 2071. Budgeting and resource allocation related to health care agencies.

HSA 3210 HPA-HP 3(3,0)
Long Term Care Administration: PR: HSA 3122. Current financing mechanisms and proposed solution, and the impact of government regulation or the operation of long-term care facilities.

HSA 3430 HPA-HP 3(3,0)
Health Care Economics: PR: HSA 3122. 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.

HSA 3559 HPA-COMD 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.

HSA 4109 HPA-HP 3(3,0)
Principles of Managed Care: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, HSC 4500. Course will introduce the contractual, financial, and practice pattern components of managed care.

HSA 4120 HPA-HP 3(3,0)
Community Health: PR: HSA 3122. Historical, socio-cultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies.

HSA 4180 HPA-H&PT 3(3,0)
Organization and Management for Health Agencies: PR: HSA 3122. Organization and management of health care agencies, including procedural applications.

HSA 4193 HPA-HP 3(3,0)
Health Care Automation: PR: HSA 3122, CGS 2100. Analysis and design of computerized systems for health data and health administration.

HSA 4220 HPA-HP 3(3,0)
Long Term Patient Management: PR: HSA 3122. Concepts and process of patient care planning and management in a long term care facility.

HSA 4502 HPA-HP 3(3,0)
Risk Management Systems: PR: HSA 3122; HSA 3170, HSA 4120, HSA 4180, HSA 4193, and HSC 4500. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care.

HSA 4700 HPA-HP 3(3,0)
Health Sciences Research Methods: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, and HSC 4500. Introduction to research design in the Health Sciences, including design, literature review, testing, analysis, and conclusions.

HSA 4701 HPA-HP 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.

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.

HSA 5197 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.

HSA 5198 HPA-HP 3(3,0)
Health Care Computer Applications: PR: Graduate status. Overview of health information systems, with an emphasis on computer applications. Discussion of software and hardware requirements.

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.

HSC 1931C HPA-HP 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.

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.

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.

HSC 3149 HPA-HP 3(3,0)
Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage.

HSC 3402C HPA-HP 3(2,3)
CPR& First Aid: To train individuals to accepted and recognized medical standards in emergency first aid and CPR to include medical, environmental and trauma related emergencies.

HSC 3531 HPA-HP 3(3,0)
Medical Terminology: A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms.

HSC 3593C HPA-HP 3(2,2)
HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease. Topics include: epidemiology & immunology; basic facts, prevention; legal, economic, and ethical issues; psychosocial aspects; substance abuse; sexuality and decision-making.

HSC 3640 HPA-HP 3(3,0)
Health Law: PR: HSA 3122, HSA 3170, HSA 4120,

HSA 4180. Principles of law as applied to the health field, with special reference to health practices.	HUM 3255 AS-PHIL 3(3,0) Modern Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period.	dance, and ritual practices in religious traditions, with emphasis on the contemporary.
HSC 4008 HPA-HP 3(3,0) Professional Development in Health Professions: PR: RET 3026 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.	HUM 3320 AS-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.	HUM 4554 AS-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.
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.	HUM 3401 AS-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.	HUM 5802 AS-PHIL 3(3,0) Applied Contemporary Humanities: PR: HUM 5803. Development of an application research project relevant to contemporary cultural issues, using Humanities theories and methods
HSC 4500 HPA-HP 3(3,0) Epidemiology: PR: HSA 3122, STA 2014C or STA 2023. A study of the distribution and determination of diseases and injuries in human population.	HUM 3417 AS-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.	HUM 5803 AS-PHIL 3(3,0) Theories and Methods of the Humanities: PR: Senior undergraduate standing and at least one of the following: HUM 3251, 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.
HSC 4550 HPA-HP 3(3,0) Pathophysiologic Mechanisms: PR: ZOO 3733C and PCB 3703C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state.	HUM 3419 AS-PHIL 3(3,0) Islamic Thought and Culture: PR: HUM 2230, REL 2300, or C.I. A survey of the development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art.	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.
HSC 4564 HPA-HP 3(3,0) Health Care Needs of the Elderly: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, HSC 4500. Overview of the physical and emotional needs of the elderly, including the institutional health care available.	HUM 3431 AS-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.	HUN 3011 HPA-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.
HSC 4653 HPA-HP 3(3,0) Health Care Ethics: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4188, HSA 4193, HSC 4500. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making.	HUM 3435 AS-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.	HUN 3013 UCF-HOSP 3(3,0) Nutrition Concepts and Issues in the Food Service Industry: PR: HFT 4250C or C.I. Introduces basic nutrition concepts. Discusses nutrition concepts and concerns in relation to food preparation and service in the hospitality industry.
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.	HUM 3552 AS-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.	HUN 5937 HPA-HP 3(3,0) Nutrition and Exercise Physiology: This course correlates human nutrition with exercise physiology. Nutritional concepts are related to human performance and fitness
HUM 2211 AS-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.	HUM 3553 AS-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.	IDH 1040H UCF-HON 2(2,1) Honors Foundation of Leadership: 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.
HUM 2211H AS-PHIL 3(3,0) Honors 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. Honors content.	HUM 4301 AS-PHIL 3(3,0) The Classical Ideal: PR: HUM 2211 and HUM 2230 or C.I. The search for order and form in the arts of various times and cultures. Concerns reason, structure, objectivity, harmony. Open to all Juniors and Seniors.	IDH 1921 UCF-HON 1(2,0) Honors Symposium: Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts.
HUM 2230 AS-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.	HUM 4303 AS-PHIL 3(3,0) The Spiritual Ideal: PR: HUM 2211 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest: mystical impulses contrasted to ethos and pathos.	IDS 1040C AS-LS 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.
HUM 2230H AS-PHIL 3(3,0) Honors 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. Honors content.	HUM 4330 AS-PHIL 3(3,0) Performance Theory: PR: Junior standing and HUM 2230 and either PHI 2010, PHI 2011, PHI 2101, 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.	IDS 2041C AS-CAS 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.
HUM 3251 AS-PHIL 3(3,0) Contemporary Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the 20th century.	HUM 4393 AS-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.	IDS 2680 AS-DIG 3(3,0) Introduction to Digital Media: CR: ENC 1101. The principles, development and prospects for Digital Media, with a focus on the Internet. Students learn to build Web pages as their principal expressive medium in the course. Extensive reading, Internet and library research, several short papers and a team project are required. This course serves as the gateway for the Digital Media program.

UCF Courses and Descriptions

IDS 3150	AS-LS	3(3,0)	where students design Web pages, and provide tutorial, installation and maintenance assistance with software tools.
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.			
IDS 3683	AS-DIG	3(3,0)	
Digital Media Production I: PR: IDS 2680 and ART 2600C. Media project planning, organization and execution; group dynamics. Software tools for project planning, scheduling and management.			
IDS 3684L	AS-DIG	1(0,3)	
Digital Media Service I: PR: IDS 3683. Participation 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.			
IDS 3687C	AS-DIG	3(2,1)	
Digital Imagery: PR: IDS 2680 or C.I. Technical principles of digital photography and scanned image capture for use in video games, internet and interactive software. Project oriented.			
IDS 3689C	AS-DIG	4(2,2)	
Computer as a Medium: PR: IDS 2680. Not for credit for those who have had ART 2300C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and Illustrator software to draw from still life arrangements.			
IDS 3701C	AS-DIG	3(2,2)	
Internet Software Design: PR: IDS 2680, COP 2500, COP 3330. Software design for media-rich Internet applications in arts and humanities. User interface, client/server, n-tier architectures, scalability, optimization, streaming, interactive media objects for storytelling and e-commerce.			
IDS 3707	AS-DIG	3(3,0)	
Digital Media Principles: PR: MAC 1105. Principles, development and prospects for Digital Media; focuses on Internet and Web Page construction.			
IDS 3715	AS-DIG	3(3,0)	
Visual Language of the Moving Image: PR: IDS 3707 or FIL 1007 and C.I. Digital Media, Film or Animation major. Conceptual structure and design of visual storytelling. Principles, mechanics, character development, personality of place, exaggeration and effects.			
IDS 3782C	AS-DIG	3(3,0)	
Assembling Digital Media: PR: IDS 2680. Assembly and editing of images and sounds for use in interactive media. Project oriented.			
IDS 4156	AS-LS	3(3,0)	
Solving Environmental Problems: PR: IDS 3150, ECO 4302, GEO 3151C, GEO 4176C and PUP 3203, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed.			
IDS 4681	AS-DIG	3(3,0)	
Modeling for Realtime Graphics: PR: CAP 4021, ART 2600C or other computer graphics experience and C.I. Principles of construction of 3D models for realtime applications; use of high performance CAD systems; level of detail management, efficiency vs. visual quality for video games and realtime simulation.			
IDS 4682L	AS-DIG	3(0,3)	
Digital Media Project I: PR: IDS 4700C. 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.			
IDS 4685L	AS-DIG	1(0,3)	
Digital Media Service II: PR: IDS 3684L. Continued participation in a consulting service for selected clients both within and external to the university,			
IDS 4686C	AS-DIG	3(2,2)	
Game Design: PR: IDS 2680 and C.I. Principles of design for interactive games and learning experiences. Psychology of play, storytelling, and character development. Project oriented.			
IDS 4686L	AS-DIG	1(0,3)	
Digital Media Service III: PR: IDS 4685L. 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.			
IDS 4688C	AS-DIG	3(2,2)	
Media for e-Commerce I: PR: IDS 2680 and (COP 2500C or COP 3502C). Media in support of electronic commerce on the Internet. Emphasis on the artistic and creative components supporting the business aspects of electronic commerce. Project oriented.			
IDS 4688L	AS-DIG	3(0,3)	
Internet Interaction: PR: IDS 2680 or CGS 3175 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying esthetic and scientific principles of user interface design. Project oriented.			
IDS 4700C	AS-DIG	3(2,2)	
Digital Media Production II: PR: IDS 3683. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I.			
IDS 4703	AS-DIG	3(0,0)	
Digital Media Project II: PR: IDS 4682. Continuation of IDS 4682.			
IDS 4704	AS-DIG	3(3,0)	
Media for E-Commerce II: PR: IDS 4688C and COP 3330. Server-side programming in Java to support media-rich E-Commerce applications. Project oriented.			
IDS 4705	AS-DIG	3(3,0)	
Autonomous Media: PR: IDS 3701C. Applications of concepts derived from research on artificial intelligence, to media and the Internet. Project-based.			
IDS 4706	AS-DIG	3(3,0)	
Creative Digital Devices: PR: IDS 3701C and ART 2201C. The physical construction and computer control of electromechanical devices, and the use of software libraries for controlling testbed hardware, for entertainment and creative applications.			
IDS 4711C	AS-DIG	3(2,2)	
Game Engines: PR: IDS 2680 and C.I. Principles of 3D interactive graphics and simulation as used in "game engines," software systems for building Internet or PC-based shared virtual worlds. Project oriented.			
IDS 5145	ECS-ECS	3(3,2)	
Interdisciplinary course in simulation: PR: Calculus, matrix algebra, probability & statistics, high level programming language. An interdisciplinary course on simulation with hands-on experience in discrete event modeling, continuous modeling & shared virtual world. May be repeated for credit.			
IDS 5709	AS-DIG	3(3,0)	
Autonomous Characters: PR: Graduate 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.			
IDS 5717C	UCF-IDS	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.
IDS 5718	AS-DIG	3(3,0)	
Science & Technology of Dynamic Media: PR: Graduate standing or C.I. Graduate level survey of key scientific, technical issues in interactive media. Information algorithms, objects, models. Theories of computer graphics, sound, modeling, simulation, interfaces, artificial intelligence.			
IDS 5719	UCF-IDS	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.			
INP 3004	AS-PSYCH	3(3,0)	
Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations.			
INP 3141C	AS-PSYCH	1-3(0,3-9)	
Advanced Applied Psychology: PR: PSY 2012 and C.I. Course will explore application of psychological knowledge to clinical, experimental, industrial, or educational settings. Supervised laboratory experience is required. May be repeated for credit. Graded S/U.			
INP 3803	AS-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.			
INP 3951	AS-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.			
INP 4056	AS-PSYCH	3(3,0)	
Advanced Industrial Psychology: PR: INP 3004 and PSY 3214C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment.			
INP 4313	AS-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.			
INP 5825	AS-PSYCH	3(3,0)	
Human-computer Interface (HCI) design: A team approach: PR: Graduate 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			
INR 2002	AS-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.			
INR 3016	AS-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.			
INR 3253	AS-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.			

INR 4030 AS-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.

INR 4035 AS-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.

INR 4074 AS-POLS 3(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.

INR 4075 AS-POLS 3(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.

INR 4076 AS-POLS 3(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.

INR 4085 AS-POLS 3(3,0)
Women, Gender, and Globalization: PR: Junior standing. Feminist and gender perspectives in International Relations, Globalization, and International Political Economy.

INR 4102 AS-POLS 3(3,0)
American Foreign Policy: Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world.

INR 4104 AS-POLS 3(3,0)
Topics and Cases in American Foreign Policy: PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems or aspects of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, policymaking and decision-making and intelligence.

INR 4114 AS-POLS 3(3,0)
American Security Policy: PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control.

INR 4115 AS-POLS 3(3,0)
Strategic Weapons and Arms Control: Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation.

INR 4224 AS-POLS 3(3,0)
Contemporary International Politics of Asia: Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan.

INR 4225 AS-POLS 3(3,0)
The Vietnam War: Background of events leading to America's involvement in Indochina, the course of the Vietnam War, and the lessons which that war imparts.

INR 4243 AS-POLS 3(3,0)
International Politics of Latin America: Study of contemporary U.S.-Latin American relations, inter-American politics and organization, and the role of Latin America in the world.

INR 4304 AS-POLS 3(3,0)
Issues in International Public Policy: PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-

making, which influence select international public policy issues.

INR 4335 AS-POLS 3(3,0)
Coercion in International Politics: Examination of the role of coercive techniques among states in a nuclear age, ranging from nuclear strategy and deterrence to wars of national liberation and coups.

INR 4351 AS-POLS 3(3,0)
International Environmental Law: PR: Junior standing or C.I. Examination of global efforts to establish a treaty regime for environmental protection of earth's biosphere when challenged by national sovereignty and economic and cultural diversity.

INR 4401 AS-POLS 3(3,0)
International Law I: PR: Junior standing or C.I. The nature, evolution, and sources of international law and such subareas as recognition of states and governments, expropriation, nationality, and aliens.

INR 4402 AS-POLS 3(3,0)
International Law II: PR: INR 4401 or C.I. Examination of various sub-areas of international law, including maritime law, laws of the sea and seabed, air law, outer space, neutrality, and laws of war.

INR 4404 AS-POLS 3(3,0)
Space Law: Examination of the legal regime of outer space from both international and national perspectives, and the legal problems arising from human activity in space.

INR 4502 AS-POLS 3(3,0)
International Organizations: The study of the structure and workings of international organizations of cooperation, including the UN, its affiliates, and various regional organizations.

INR 4603 AS-POLS 3(3,0)
International Relations Theory: PR: INR 2002. Theoretical trends prevalent in the study of international relations, including realism, liberalism, Marxism, feminism, and post-modernism.

INR 4714 AS-POLS 3(3,0)
Politics of International Trade Policy: PR: INR 2002. Key actors and processes of international trade policy-making at the sub-national, nation-state, regional, and global levels of analysis.

ISM 3005 BA-MIS 3(3,0)
MIS Techniques: PR: CGS 2100. Introduction to computer use required of users and developers of management information systems.

ISM 3011 BA-MIS 3(3,0)
Management Information Systems: PR: CGS 2100 or CGS 1060. An introduction to the management and use of information technology in organizations.

ISM 3011H BA-MIS 3(3,0)
Honors Management Information Systems: PR: CGS 2100C or CGS 1060C; permission of Honors Program. Management and use of information technology in organizations.

ISM 3013 BA-MIS 3(3,0)
Introduction to Information Systems Management: PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. For non-majors only. The Course introduces fundamental concepts and methods related to the management of information systems in organizations.

ISM 3043 BA-MIS 3(3,0)
Society and Technology: PR: CGS 2100C or CGS 1060C, and Mac 1105 or MGF 1106, and ISM 3011. For Non-majors only. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities.

ISM 3214 BA-MIS 3(3,0)
Personal Database Productivity: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and

ISM 3011. For non ISM majors only. The use of databases and data products. Emphasizes modern tools for accessing organizational data, data mining and reporting.

ISM 3424 BA-MIS 3(3,0)
Computer-Aided Decision Making: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. For non MIS majors only. Prepares the student to use computer-based tools to assist in making organizational decisions. Also includes a component on problem solving techniques.

ISM 3482 BA-MIS 3(3,0)
Electronic Commerce: PR: CGS 2100C or CGS 1060C, and ISM 3011. For non-MIS Majors only. Basic electronic commerce and technologies. Students are required to develop an e-commerce related business plan and build a prototype Website using a tool.

ISM 3521 BA-MIS 3(3,0)
Business Applications: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS majors may not receive credit for this course. Advanced topics concerning the use of application software in organizations. Focus on integration of applications.

ISM 3530 BA-MAN 3(3,0)
Quality & Productivity Management: PR: GEB 3031 and MAN 3025. An examination of the principles and theories of quality and operations management in manufacturing and service organizations.

ISM 4090 BA-MIS 3(3,0)
Seminar in Management Information Systems: PR: ISM 3011. New developments in management information systems in a business environment.

ISM 4113 BA-MIS 3(3,0)
Information Systems Analysis and Design: PR: ISM 4212, ISM 3005. Structured approaches to the development of computer-based information systems in business.

ISM 4114 BA-MAN 3(3,0)
Advanced Business Application Development: PR: ISM 3005, ISM 4212, CR: ISM 4220, ISM 4113. Theory and practice in developing client server applications for business and use of modern development tools. Includes principles of multiuser, multitier application design and implementation.

ISM 4130 BA-MIS 3(3,0)
Information Systems Implementation: PR: ISM 4113. Management of information systems development in business.

ISM 4133 BA-MIS 6(6,0)
Information Systems Analysis, Design, and Implementation: PR: ISM 3005, ISM 4212. Same as ISM 4113 and ISM 4130. Comprehensive coverage of analysis, design, and implementation of information systems

ISM 4212 BA-MIS 3(3,0)
Database Management: PR: ISM 3005 and ISM 3011. Design and implementation of relational database in organizations.

ISM 4220 BA-MIS 3(3,0)
Distributed Information Systems: PR: ISM 3005 and ISM 3011. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Distributed database design and implementation.

ISM 4228 BA-MAN 3(3,0)
Advanced Distributed Information Systems: PR: ISM 4220. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork emphasized in acquiring a master of networking concepts

UCF Courses and Descriptions

ISM 4238	BA-MAN	3(3,0)	Italian culture.
Business Programming/OOP: PR: ISM 3005, ISM 4212, or C.I. This course will provide an introduction to object-oriented programming (OOP) and object-oriented design (OOD).			
ISM 4300	BA-MIS	3(3,0)	ITA 2201 AS-LANG 3(3,0)
Technology Management: PR: ISM 4113, MAN 3025, Junior Standing. The strategy and theory of the design, development, adoption, and management of new information technologies.			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.
ISM 4400	BA-MIS	3(3,0)	ITA 2210 AS-LANG 3(3,0)
Decision Support: PR: ISM 3011. Computer-based quantitative models and decision support systems in organizations.			Intensive Italian Conversation: PR: One year of Italian or equivalent. Practical use of the language leading toward fluency and correctness in speaking.
ISM 4480	BA-MIS	3(3,0)	ITA 2240 AS-LANG 3(3,0)
Electronic Commerce Systems: PR: ISM 3005, ISM 4212, MAR 3023. Theory and practice in developing electronic commerce systems. Emphasizes economic issues and modern e-commerce development tools. Significant laboratory work required.			Italian Conversation: PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture.
ISM 4941	BA-MIS	3(0,3)	ITA 3420 AS-LANG 3(3,0)
Internship in MIS: PR: ISM 3005, ISM 4212, and ISM 3011. Application required. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information.			Italian Composition: PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture.
ISM 5020	BA-MIS	1.5(1.5,0)	ITA 3472 AS-LANG 3(3,0)
MIS Foundations: PR: Acceptance to Graduate Study. Information systems are an integral part of modern organizations. This course provides an introduction to information systems from an organizational and managerial perspective.			Renaissance Art Abroad: PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo.
ISM 5021	BA-MIS	3(3,0)	ITA 3760 AS-LANG 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.			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.
ISM 5123	BA-MIS	3(3,0)	ITA 4500 AS-LANG 3(3,0)
Concepts of Systems Analysis and Design: PR: Completion of ISM 5021 and 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.			Italian Civilization: PR: ITA 2201. A historical approach to Italian civilization, with particular emphasis on art history.
ISM 5256	BA-MIS	3(3,0)	ITA 4820 AS-LANG 3(3,0)
Concepts of Business Programming: PR: Admission to Graduate Study. Principles of programming including program design, fundamental programming constructs, and database access.			Italian Syntax Abroad: PR: ITA 3420. A study of Italian Syntax for advanced students of Italian.
ISS 4155	AS-COMM	3(3,0)	ITW 3100 AS-LANG 3(3,0)
Science Fiction and the Social Sciences: A multimedia examination of note-worthy science fiction from the Social Science perspective.			Survey of Italian Literature I: PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries.
ITA 1005	AS-LANG	1(1,0)	ITW 3101 AS-LANG 3(3,0)
Italian Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, Italian songs, and opera libretti.			Survey of Italian Literature II: PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present.
ITA 1120	AS-LANG	4(4,1)	ITW 3600 AS-LANG 3(3,0)
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.			Dante's Inferno: PR: ITW 3100. An in-depth study of Dante's Inferno. In English.
ITA 1121	AS-LANG	4(4,1)	JOU 2100C AS-COMM 3(3,1)
Elementary Italian Language and Civilization II: PR: ITA 1120 or equivalent. Continuation of ITA 1120.			News Reporting: PR: Journalism Major, Communication Pending, or Magazine Writing Minor. Newsgathering and writing for the mass media. Students must earn a "C" (2.0) or better to use this course as a prerequisite for subsequent Journalism courses.
ITA 2200	AS-LANG	3(3,0)	JOU 3004 AS-COMM 3(3,0)
Intermediate Italian Language and Civilization I: PR: ITA 1121 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar, study of syntax, idiomatic expression, extensive readings, and further study of			History of American Journalism: Development of mass media, leading innovators, and the media's role in the nation's history.
			JOU 3101 AS-COMM 3(3,0)
			Advanced Reporting: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of "C" (2.0) in JOU 2100C. Advanced information-gathering and development of news writing skills.
			JOU 3200 AS-COMM 3(3,0)
			Editing I: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of "C" (2.0) in JOU 2100C. Editing copy, writing headlines, managing newsroom operations.
			JOU 3202 AS-COMM 3(3,0)
			Editing II: PR: Journalism major or Magazine Writing
			minor, JOU 3200, and a minimum grade of "C" (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout.
			JOU 3510 AS-COMM 3(3,0)
			Magazine Publishing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, emphasizing business operations and current topics.
			JOU 4181 AS-COMM 3(3,0)
			Public Affairs Reporting: PR: Journalism major, and a minimum grade of "C" (2.0) in JOU 2100C. Reporting on city, county and state government.
			JOU 4224 AS-COMM 3(3,0)
			Magazine Editing and Production: PR: Junior standing or C.I. The magazine industry, including writing and editing skills, and editorial, business, and production requirements.
			JOU 4300 AS-COMM 3(3,0)
			Feature Writing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. Writing feature articles for newspapers and magazines.
			JOU 4306C AS-COMM 3(1,2)
			Critical Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works.
			JOU 4308 AS-COMM 3(3,0)
			Freelance Writing: PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts.
			JOU 4340C AS-COMM 3(1,3)
			On-line Journalism I: PR: A minimum grade of "C" (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Students will write and design news for the Web.
			JOU 4341C AS-COMM 3(1,3)
			On-line Journalism II: PR: JOU 4340C. Study, design, and development of on-line journalism materials.
			JPN 1120 AS-LANG 4(4,1)
			Elementary Japanese Language and Civilization I: Introduces the student to Japanese culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language.
			JPN 1121 AS-LANG 4(4,1)
			Elementary Japanese Language and Civilization II: PR: JPN 1120 or equivalent. Continuation of JPN 1120.
			JPN 2200 AS-LANG 3(3,1)
			Intermediate Japanese Language and Civilization I: PR: JPN 1121 or equivalent. This course aims to aid in acquiring and refining the acquisition of the four skills in modern Japanese: speaking, listening, reading, and writing. The emphasis is on accurate communication in Japanese. The culture of Japan will also be studied.
			JPN 2201 AS-LANG 3(3,1)
			Intermediate Japanese Language and Civilization II: PR: JPN 2200 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization.
			JST 3100 AS-JUD 3(3,0)
			The Hebrew Creative Mind: Survey of Hebrew Literature in Translation. A survey of the creative expressions of Hebrew civilization as found in the Hebrew Bible, Apocrypha and Pseudepigrapha, the Mishnah, and the Talmud, Medieval Hebrew Poetry and Prose.

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JST 3120	AS-JUD	3(3,0)	LAE 4360	ED-TLP	4(3,2)	LAH 3130	AS-HIST	3(3,0)
Hebrew Scriptures: PR: ENC 1102, Junior standing. The Hebrew Bible (Old Testament, in translation) in historical, social, religious, cultural and literary contexts.			English Instructional Analysis: PR: EDG 4323. Course objectives for a school curriculum and methods and materials which have special application for teaching English at the middle grades and high school.			Latin American History I: PR: EUH 2000 and 2001 or C.I. The Colonial period.		
JST 3125	AS-JUD	3(3,0)	LAE 4361	ED-TLP	3(3,0)	LAH 3200	AS-HIST	3(3,0)
The Book of Job: PR: Jr standing, ENC 1102. A textual-thematic study of Book of Job in English translation, exploring the Book of Job as literature, theology and ethics.			Literacy Strategies for Middle and High School: PR: Meet College of Education Admission requirements, 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.			Latin American History II: PR: EUH 2000 and 2001 or C.I. The National period.		
JST 3126	AS-JUD	3(3,0)	LAE 4464	ED-TLP	3(3,0)	LAH 3400	AS-HIST	3(3,0)
Romantic Love in the Bible: PR: ENC 1102, Junior standing. The dimensions of romantic love in the Hebrew Bible, focusing on the depiction of human feelings of love and relationship; the nature of man-woman interactions in ancient Israel.			Survey of Adolescent Literature: This course is designed to explore adolescent literature from both an educational and an historical perspective.			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.		
JST 3144	AS-JUD	3(3,0)	LAE 5195	ED-TLP	3(3,0)	LAH 3470	AS-HIST	3(3,0)
Dead Sea Scrolls: PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance.			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.			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.		
JST 3401	AS-JUD	3(3,0)	LAE 5295	ED-TLP	1-3(1-3,0)	LAH 5713	AS-HIST	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.			Writing Workshop I: PR: C.I. Students will engage in exploration and practice of effective writing strategies. May include teaching small groups of students. May be repeated for credit.			Colloquium in U.S.-Latin American Relations: PR: Senior Standing and 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.		
JST 3402	AS-JUD	3(3,0)	LAE 5319	ED-TLP	3(3,0)	LAS 4023	AS-AAS	3(3,0)
The Jewish People II: The life and history of the Jews in the medieval and modern worlds.			Methods of Elementary School Language Arts: PR: EDG 4323. Principles, procedures, organization and current practices in reading, writing, listening, and talking.			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.		
JST 3550	AS-JUD	3(3,0)	LAE 5337	ED-TLP	3(3,0)	LAT 1120	AS-LANG	4(4,1)
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).			Literacy Strategies for Middle and Secondary Teaching: PR: Graduate standing 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.			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.		
JST 3701	AS-JUD	3(3,0)	LAE 5338	ED-TLP	3(3,0)	LAT 1120H	AS-LANG	4(4,1)
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.			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.			Honors 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, with honors-level content.		
JST 3751	AS-JUD	3(3,0)	LAE 5346	ED-TLP	3(3,0)	LAT 1121	AS-LANG	4(4,1)
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.			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.			Elementary Latin Language and Civilization II: PR: LAT 1120 or equivalent. Continuation of LAT 1120.		
JST 3810	AS-JUD	3(3,0)	LAE 5367	AS-ENG	3(3,0)	LAT 1121H	AS-LANG	4(4,1)
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.			English Composition and Literature for Teachers of Advanced Placement: PR: Graduate standing and C.I. A two-week summer institute for secondary school teachers preparing to teach Advanced Placement courses.			Honors Elementary Latin Language and Civilization II: PR: LAT 1120H or equivalent. Continuation of LAT 1120H, with honors-level content.		
JST 3820	AS-JUD	3(3,0)	LAE 5415	ED-TLP	3(3,0)	LIN 3010	AS-ENG	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.			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.			Principles of Linguistics: PR: 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.		
LAE 3414	ED-TLP	3(3,0)	LAE 5465	ED-TLP	3(3,0)	LIN 3640	AS-PSYCH	3(3,0)
Literature for Children: PR: Phase I or C.I. General survey of books and materials; criteria for analysis and evaluation; types of books available considered in terms of interests, needs, and abilities of children.			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.			Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups.		
LAE 4314	ED-TLP	3(3,0)	LAE 5495	ED-TLP	3(3,0)	LIN 3716	HPA-COMD	3(3,0)
Language Arts in the Elementary School: PR: Phase I or C.I. Content, principles, materials, and techniques involved in teaching, speaking, listening, writing, and spelling in the elementary school; organizing for instruction.			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.			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.		
LAE 4342	ED-TLP	3(3,0)				LIN 3717	HPA-COMD	3(3,0)
Teaching Language and Composition: PR: EDG 4323; CR: LAE 4360 and ESE 3940. Techniques and methods in teaching grammar, usage, dialect, and composition; includes meeting the needs of the new English language learner.						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.		

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LIN 4100	AS-ENG	3(3,0)	History of the English Language: PR: ENC 1102 and Sophomore standing. Study of the English language and its development from Anglo-Saxon to Modern.	LIT 3192	AS-ENG	3(3,0)	Caribbean Literature: PR: ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; in English.	LIT 4043	AS-ENG	3(3,0)	Modern Drama As Literature: PR: ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama.
LIN 4643	AS-ENG	3(3,0)	Cross Cultural Communication: PR: ENC 1102, Junior standing. Studies of the styles of spoken, written, and nonverbal communication of selected cultural groups, including men and women, Afro- and Anglo-Americans, Germans and French, Hispanics, Arabs, and Japanese.	LIT 3192H	AS-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.	LIT 4184	AS-ENG	3(3,0)	Irish Literature: PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience.
LIN 4660	AS-ENG	3(3,0)	Linguistics and Literature: PR: LIN 3010. Investigation of language study as an aid to understanding literature. Topics include analysis of figurative language, languages as characterization, cohesion, sentence and discourse structure.	LIT 3202	AS-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.	LIT 4285H	AS-ENG	3(3,0)	Faces of Evil: PR: ENC 1102. An Honors seminar on the literature and film depictions of hatred, racism, and other evil.
LIN 4680	AS-ENG	3(3,0)	Modern English Grammar: PR: ENC 1102 and Sophomore standing. Emphasis upon the analysis and comparison of traditional, structural, and transformational grammar.	LIT 3313	AS-ENG	3(3,0)	Science Fiction: PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings.	LIT 4303	AS-ENG	3(3,0)	Post-World War II Fiction: PR: ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries.
LIN 4711	HPA-COMD	3(3,0)	Language Analysis: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing, and describing language across the lifespan.	LIT 3313H	AS-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.	LIT 4374	AS-ENG	3(3,0)	Literature of the Bible: PR: ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible N narrative, poetic, and dramatic N and their reflection in modern literature.
LIN 4711L	HPA-COMD	1(0,1)	Language Analysis Lab: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing and describing language samples across the lifespan. Graded S/U.	LIT 3354	AS-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.	LIT 4374H	AS-ENG	3(3,0)	Honors Literature of the Bible: PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible N narrative, poetic, and dramatic N and their reflection in modern literature. Honors content.
LIN 4801	AS-ENG	3(3,0)	Language and Meaning: PR: ENC 1102 and Sophomore standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings.	LIT 3354H	AS-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.	LIT 4433	AS-ENG	3(3,0)	Survey of Technical and Scientific Literature: PR: ENC 1102 and Junior Standing or C.I. An analysis of the historical development of technical and scientific writing from the Renaissance to the present.
LIN 5137	AS-ENG	3(3,0)	Linguistics: PR: Senior or graduate standing or C.I. Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics.	LIT 3383	AS-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.	LIT 4554	AS-ENG	3(3,0)	Advanced Feminist Theories: PR: ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices.
LIN 5675	AS-ENG	3(3,0)	English Grammar and Usage: PR: Graduate Status and C.I. An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage.	LIT 3383H	AS-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.	LIT 4937H	AS-ENG	3(3,0)	English Honors Seminar: PR: ENG 3014 and Honors Student Status or consent of Honors coordinator. In-depth study of language and/or literature with an emphasis on creative and critical abilities.
LIT 2000	AS-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.	LIT 3394	AS-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.	LIT 5028	AS-ENG	3(3,0)	Form and Theory of Short Story: PR: Graduate status or C.I. Evolving forms and theories of short fiction and the implications of form and theory.
LIT 2110	AS-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.	LIT 3394H	AS-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.	LIT 5039	AS-ENG	3(3,0)	Studies in Contemporary Poetry: English language poetry from 1945 to the present. Emphasis will be on American poets, but others such as English or Australian will be included.
LIT 2120	AS-ENG	3(3,0)	World Literature II: PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others.	LIT 3482	AS-ENG	3(3,0)	Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions.	LIT 5097	AS-ENG	3(3,0)	Studies in Contemporary Fiction: PR: Senior standing or C.I. Fiction in the last 20 years in the United States and Britain. May be repeated for credit when content is different
LIT 2120H	AS-ENG	3(3,0)	World Literature II N Honors: Same as LIT 2120, with honors-level content.	LIT 3905	AS-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.	LIT 5250	AS-ENG	3(3,0)	The Victorian Age: Poetry: PR: Graduate standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others.
LIT 3082	AS-ENG	3(3,0)	Continental European Fiction Since 1900: PR: ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation.	LIT 3911H	AS-ENG	1(1,0)	Research Methods N Honors: PR: Honors Student Status or consent of Honors coordinator. Introduction to scholarship and practical research in literature and writing.	LIT 5269	AS-ENG	3(3,0)	Nineteenth-Century Essays: PR: Graduate standing or C.I. English non-fiction prose of the 19th century.

LIT 5366	AS-ENG	3(3,0)	<p>The Romantic Revolt (19th Century Literature): PR: Senior standing or C.I. The romantic revolt in poetry and prose; English, American and Continental literature from 1798 to 1832.</p>
LIT 5387	AS-ENG	3(3,0)	<p>Captives, Housewives, and Coquettes: PR: Graduate status or C.I. Course considers early American women's literature from 17th to 19th centuries</p>
LIT 5389	AS-ENG	3(3,0)	<p>Studies in Gender & Fiction Writing: PR: Graduate status or C.I. Graduate study of gender's implications for teaching and practice of fiction writing</p>
LIT 5556	AS-ENG	3(3,0)	<p>Advanced Feminist Theories: PR: Graduate status or C.I. Graduate level Feminist Theories from "French Feminism" to "Critical Race Theories."</p>
MAA 4226	AS-MATH	4(4,0)	<p>Advanced Calculus I: PR: MHF 3302 and MAC 2313 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.</p>
MAA 4227	AS-MATH	3(3,0)	<p>Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226.</p>
MAA 5210	AS-MATH	4(4,0)	<p>Topics in Advanced Calculus: PR: MAA 4226 or equivalent. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor's theorem, inverse and implicit function theorems</p>
MAA 5405	AS-MATH	3(3,0)	<p>Complex Variables: PR: MAC 2313 or C.I. Analytic functions. Integration in the complex plane. Laurent series and residue calculus. Inversion of Laplace transformations. Conformal mappings. Applications in engineering and the physical sciences.</p>
MAA 5416	AS-MATH	3(3,0)	<p>Foundations of Analysis: PR: MAA 4226. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss' theorems.</p>
MAC 1105	AS-MATH	3(3,0)	<p>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. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 1105H	AS-MATH	3(3,0)	<p>Honors College Algebra: PR: Appropriate score on placement test. 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. Course graded "A", "B", "C", "NC", or "F."</p>
MAC 1114	AS-MATH	3(3,0)	<p>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. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2147	AS-MATH	5(5,0)	<p>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,</p>
			<p>sequences, series, induction, trigonometric functions. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2233	AS-MATH	3(3,0)	<p>Concepts of Calculus: PR: MAC 1105 or C.I. The differential and integral calculus of rational, exponential and logarithmic functions, with applications to business analysis. Not open to students with credit in MAC 2253 or MAC 2311. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2241	AS-MATH	4(4,0)	<p>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. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2253	AS-MATH	3(3,0)	<p>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. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2254	AS-MATH	3(3,0)	<p>Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253.</p>
MAC 2281	AS-MATH	4(4,0)	<p>Calculus for Scientists & Engineers I: PR: MAC 1105 and MAC 1114. Calculus for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in MAC 2311, MAC 2312, and MAC 2313. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2281H	AS-MATH	4(4,0)	<p>Calculus for Scientists and Engineers I (Honors): PR: MAC 1105 and MAC 1114 or Consent of Honors Program. Same material as MAC 2281, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2282	AS-MATH	4(4,0)	<p>Calculus for Scientists & Engineers II: PR: MAC 2281. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in MAC 2311, MAC 2312, and MAC 2313.</p>
MAC 2282H	AS-MATH	4(4,0)	<p>Calculus for Scientists and Engineers II (Honors): PR: MAC 2281H or MAC 2281 and consent of Honors Program. Same material as MAC 2282, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence.</p>
MAC 2283	AS-MATH	4(4,0)	<p>Calculus for Scientists & Engineers III: PR: MAC 2282. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in MAC 2311, MAC 2312, and MAC 2313.</p>
MAC 2283H	AS-MATH	4(4,0)	<p>Calculus for Scientists and Engineers III (Honors): PR: MAC 2282H or MAC 2282 and consent of Honors Program. Same material as MAC 2283, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence.</p>
MAC 2311	AS-MATH	4(4,0)	<p>Calculus with Analytic Geometry I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. The differential</p>
			<p>and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the 2nd and 3rd semesters the topics also include sequences and series, Taylor series, and the differential and integral calculus for functions of several variables. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2311H	AS-MATH	4(4,0)	<p>Calculus with Analytic Geometry I (Honors): Differential and integral calculus, emphasizing understanding basic concepts and their applications. Students will complete projects on their own. For honors students from all disciplines. Course graded "A", "B", "C", "NC", or "F"</p>
MAC 2312	AS-MATH	4(4,0)	<p>Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311.</p>
MAC 2312H	AS-MATH	4(4,0)	<p>Calculus with Analytic Geometry II (Honors): Continuation of MAC 2311H.</p>
MAC 2313	AS-MATH	4(4,0)	<p>Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312.</p>
MAC 2313H	AS-MATH	4(4,0)	<p>Calculus with Analytic Geometry III (Honors): Continuation of MAC 2312H.</p>
MAC 3103H	AS-MATH	3(3,0)	<p>Systems Modeling and Simulation: PR: MAC 2312. Population growth dynamics; spread of an epidemic; ecological predator-prey relationships; insulin and its use in the control of diabetes; economic systems.</p>
MAD 4203	AS-MATH	4(4,0)	<p>Combinatorics and Graph Theory: PR: MAC 2312 and STA 2023. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and diagraphs, trees, path problems, coloring planarity, connectiveness matchings and coverings, applications.</p>
MAD 5205	AS-MATH	3(3,0)	<p>Combinatorics and Graph Theory II: PR: MAD 4203 or C.I. Polya's theory of counting; Latin squares and rectangles; block designs; coding theory; probabilistic methods; hypergraphs; applications.</p>
MAE 2801	ED-TLP	4(3,1)	<p>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.</p>
MAE 4300	ED-TLP	3(3,0)	<p>Exploring Mathematics: Provides students with the knowledge and skills to design, implement, and facilitate the development of mathematics concepts and skill through an integrated developmentally appropriate curriculum.</p>
MAE 4326	ED-TLP	3(3,0)	<p>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.</p>
MAE 4360	ED-TLP	4(3,2)	<p>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.</p>
MAE 4634	ED-TLP	3(2,1)	<p>Programs in Teaching of Mathematics: PR: C.I. A consideration of special programs, strategies, and</p>

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materials. Emphasis on individual needs of students.

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.)

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.

MAE 5356 ED-TLP 3(3,0)

Teaching General Mathematics in the Secondary School: PR: MAE 3330 or C.I. This course addresses specific techniques for developing general mathematics skills and concepts beginning in grade 6. Problem solving, motivation, and innovative methods are explored.

MAE 5935 AS-MATH 3(3,0)

Post-Secondary Mathematics: 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

MAN 3025 BA-MAN 3(3,0)

Management of Organizations: PR: Junior Standing, ACG 2071, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control.

MAN 3025H BA-MAN 3(3,0)

Honors Management of Organizations: PR: Participation in honors program, junior standing, 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.

MAN 3301 BA-MAN 3(3,0)

Management of Human Resources: PR: MAN 3025, Junior Standing. Provides students with a complete, comprehensive review of essential human resource management concepts and techniques. Applicable to all students of management.

MAN 4029 BA-MAN 3(3,0)

Service Organization Management: PR: MAN 3025 and ISM 3530. Study of the special characteristics, problems, and methods for managing service-oriented organizations.

MAN 4101 BA-MAN 3(3,0)

Human Relations in Management: PR: MAN 3025. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of cases and experimental exercises.

MAN 4240 BA-MAN 3(3,0)

Organizations: Theory and Behavior: PR: MAN 3025. A course providing a micro/macro approach to the study of organizations by integrating organizational theory and organizational behavioral science concepts.

MAN 4310 BA-MAN 3(3,0)

Human Resource Management Issues: PR: 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.

MAN 4320 BA-MAN 3(3,0)

Human Resources Recruitment and Selection: PR: MAN 3301. A concentrated investigation of the methods appropriate to the development, implementation and administration of the staffing process in contemporary organizations

MAN 4330 BA-MAN 3(3,0)

Compensation Administration: PR: 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

MAN 4350 BA-MAN 3(3,0)

Training and Development: PR: MAN 3301. This course focuses on training and development activities as performed by organizational specialists. Theory, issues, practices and problems are discussed.

MAN 4401 BA-MAN 3(3,0)

Labor Relations Management: PR: 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.

MAN 4521 BA-MAN 3(3,0)

Production Planning and Control: PR: ISM 3530. In depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization.

MAN 4572 BA-MAN 3(3,0)

Procurement Management: PR: MAN 3025 and ISM 3530. An elective course in procurement management. Designed to provide the student with fundamental concepts and processes involved in the procurement of goods and services required by modern society.

MAN 4595 BA-MAN 3(3,0)

Computer-Based Operations Management: PR: ISM 3011. Application of production planning and control theories and Management Information Systems concepts to an integrated, computerized, real-world production environment.

MAN 4600 BA-MAN 3(3,0)

International Management: PR: GEB 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management.

MAN 4701 BA-MAN 3(3,0)

Business Ethics and Society: PR: MAN 3025. This course applies the ethics dimension to business decisions in today's complex political, social, economic and technological environment.

MAN 4720 BA-MAN 3(3,0)

Strategic Management: PR: Completion of the remainder of the Core Curriculum and graduating senior. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities.

MAN 4720H BA-MAN 3(3,0)

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.

MAN 4802 BA-MAN 3(3,0)

Entrepreneurship: PR: MAN 3025, FIN 3403, and MAR 3023. Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and developing a new venture.

MAN 4941 BA-MAN 3(0,3)

Management Internship: PR: Management major, application approval, consent of department chair. Provides student with supervised, management-related work experience in a sponsoring organization. See department for information; application required.

NOTE: MAN 4941 may not be counted for restricted elective credit in management. May be repeated for credit.

MAN 5021 BA-MAN 1.5(1.5,0)

Management Foundations: PR: Acceptance to Graduate Study, ACG 5005 and ECO 5006. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control.

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.

MAN 5501 BA-MAN 2(2,0)

Foundations of Production/Operations Management: PR: Acceptance into the graduate program and ECO 5415 or equivalent. Provides foundation in fundamental concepts, techniques, and applications of contemporary production and operations management to serve as tools for improving quality, productivity, and international competitiveness.

MAP 2302 AS-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.

MAP 2302H AS-MATH 3(3,0)

Differential Equations (Honors): PR: 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.

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.

MAP 4103 AS-MATH 3(3,0)

Mathematical Modeling I: PR: MAC 2311 or MAC 2281, and MAP 2302. An overview of model construction. Model fitting, optimization models, empirical construction and modeling dynamic behavior.

MAP 4153 AS-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.

MAP 4171 AS-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.

MAP 4307 AS-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.

MAP 4363 AS-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.

MAP 4364 AS-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.

MAP 4371 AS-MATH 3(3,0)

Numerical Methods for Differential Equations: PR: MAC 2283 or MAC 2213, 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.

MAP 5106 AS-MATH 3(3,0)
Introduction to Quantitative Aspects of Modeling and Simulation: PR: MAC 2253 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.

MAP 5117 AS-MATH 3(3,0)
Mathematical Modeling: PR: STA 4321, MAP 4363 or C.I. Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models.

MAP 5336 AS-MATH 3(3,0)
Ordinary Differential Equations and Applications: PR: MAP 2302 or C.I. Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations.

MAP 5385 AS-MATH 3(3,0)
Applied Numerical Mathematics: PR: MAP 2302 or C.I. Classical topics or numerical analysis and their applications, Romberg integration, Richardson extrapolation, Gaussian quadrature schemes.

MAP 5396 AS-MATH 3(3,0)
Splines and Data Fitting: PR: MAS 3106, MAS 3105, MAP 2302, 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.

MAP 5404 AS-MATH 3(3,0)
Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 2302, ESI 5219 or equivalent, ESI 4312, or C.I. Methods of proof, set theory; basic elements of topology, real analysis, graph theory, and matrix analysis.

MAP 5407 AS-MATH 3(3,0)
Applied Mathematics I: PR: MAP 2302 or C.I. Calculus of variations. Hamilton's principle, Rayleigh-Ritz method, Sturm-Liouville theory, Green's functions for ordinary differential equations, introduction to integral equations

MAP 5426 AS-MATH 3(3,0)
Special Functions: PR: MAP 2302 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.

MAP 5435 AS-MATH 3(3,0)
Advanced Mathematics for Engineers: PR: MAP 2302 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.

MAP 5514 AS-MATH 3(3,0)
Linear and Nonlinear Waves I: PR: MAP 2302, MAP 4363, or C.I. Equations of motion in inviscid and viscous fluids, energy equation and energy flux, linear theory of gravity and capillary-gravity waves, variational principles for water waves.

MAP 5931 AS-MATH 1(1,0)
Research Seminar: 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.

MAR 3023 BA-MAR 3(3,0)
Marketing: PR: Junior standing. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad.

MAR 3023H BA-MAR 3(3,0)
Marketing - Honors: PR: Junior standing, admission to the Honors Program. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control.

MAR 3323 BA-MAR 3(3,0)
Integrated Marketing Communication: PR: MAR 3023. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs.

MAR 3391 BA-MAR 3(3,0)
Professional Selling: PR: MAR 3023. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling.

MAR 3403 BA-MAR 3(3,0)
Sales Force Management: PR: MAR 3023. An overview of the sales management process. Emphasis on sales program formulation and implementation.

MAR 3503 BA-MAR 3(3,0)
Customer Behavior: PR: MAR 3023. End user and business customer buying behavior, building long-term customer relationships, segmentation of markets and positioning strategies.

MAR 3613 BA-MAR 3(3,0)
Marketing Analysis and Research: PR: MAR 3023, CR: One of the following: ECO 3401, ECO 3411, STA 2023, STA 3032. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized.

MAR 3641 BA-MAR 3(3,0)
Marketing Intelligence: PR: MAR 3023. Contemporary sources and applications of information concerning external forces impacting market decision making.

MAR 3880 BA-MAR 3(3,0)
E-Marketing: PR: MAR 3023, CGS 2100. Course provides an in-depth study of the role of the internet in developing marketing strategies and plans.

MAR 4156 BA-MAR 3(3,0)
International Marketing: PR: MAR 3023. Investigates strategy, policy and the variables in international marketing decisions.

MAR 4231 BA-MAR 3(3,0)
Retailing Management: PR: MAR 3023. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc.

MAR 4711 BA-MAR 3(3,0)
Sports Marketing: PR: MAR 3023. Study of marketing as it applies to the sports and leisure industry.

MAR 4712 BA-MAR 3(3,0)
Healthcare Marketing: PR: MAR 3023. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers.

MAR 4724 BA-MAR 3(3,0)
Strategic Foundations in Global E-Business: PR: MAR 3023. 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.

MAR 4803 BA-MAR 3(3,0)
Marketing Management: PR: MAR 3503 and MAR 3613. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments

MAR 4804 BA-MAR 3(3,0)
Marketing Strategy: PR: MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making.

MAR 4841 BA-MAR 3(3,0)
Services Marketing: PR: MAR 3023. 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.

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.

MAR 5055 BA-MAR 1-3(1-3,0)
Marketing Foundations: PR: Acceptance into the graduate program. Study of functions, institutions, and basic marketing of goods in the U.S. economy.

MAR 5941 BA-MAR 3(3,0)
Small Business Consulting: PR: Graduate status, all foundation classes, FIN 6406, MAR 6816. Provides students opportunity to apply knowledge learned in classroom to real business situations. Open to undergraduate majors in the College of Business Administration with approval of the department chair.

MAS 3105 AS-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.

MAS 3106 AS-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).

MAS 3203 AS-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.

MAS 4301 AS-MATH 3(3,0)
Algebraic Structures: PR: MHF 3302 or C.I. An introduction to groups, rings and fields.

MAS 5145 AS-MATH 3(3,0)
Advanced Linear Algebra and Matrix Theory: PR: MAS 3105. LU and LDU decompositions, linear spaces, inner product spaces, systems of linear equations, eigenvalues and canonical forms, variational principles and applications.

MAS 5311 AS-MATH 3(3,0)
Abstract Algebra with Applications: PR: MAS 4301 or undergraduate abstract algebra. Group actions, the class equation, Sylow Theorems, polynomial rings, Euclidian domains, principal ideal domains, field extensions, modules, and semi-simple rings.

MAT 5711 AS-MATH 3(3,0)
Scientific Computing: PR: MAC 2313, MAP 2302 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.

MCB 2005C HPA-M&M 4(3,2)
Microbiology for Health Professionals: PR: BSC 2010C, CHM 2045C or equivalent. A survey of microbiology for the health professional.

MCB 3020C HPA-M&M 5(3,4)
General Microbiology: PR: BSC 2010C, CHM 2205, or CR: CHM 2210. Fundamentals of microbiology,

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evaluating microbial structure and function, metabolism, growth, genetics, virology environmental control, ecology, pathogenicity; and laboratory techniques.

MCB 3203 HPA-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.

MCB 3203L HPA-M&M 1(0,3)
Pathogenic Microbiology: CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms.

MCB 3522H HPA-M&M 3(3,0)
Biotechnology and Genetic Engineering Seminar: PR: Honors Program. 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.

MCB 4114C HPA-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.

MCB 4414 HPA-M&M 3(3,0)
Microbial Metabolism: PR: MCB 3020C and BCH 4054. Interrelationship between cellular structure function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment.

MCB 4603 HPA-M&M 3(3,0)
Environmental Microbiology: PR: PCB 3034 and MCB 3020C. Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environments.

MCB 5205 HPA-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.

MCB 5225 HPA-M&M 3(3,0)
Molecular Biology of Disease: PR: Graduate standing or C.I. An in-depth study of the molecular biological mechanisms of diseases in experimental animal models and human populations

MCB 5505 HPA-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.

MCB 5527 HPA-M&M 3(3,0)
Genetic Engineering and Biotechnology: PR: PCB 3523 and PCB 4524 or C.I. Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems, Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth.

MCB 5654 HPA-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.

MCB 5932 HPA-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.

MGF 1106 AS-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.

MHF 2104 AS-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.

MHF 3302 AS-MATH 3(3,0)
Logic and Proof in Mathematics: PR: MAC 2281 or MAC 2311. CR: MAC 2282 or MAC 2312. Basic mathematical logic. Methods of proof in mathematics. Application of proofs to elementary mathematical structures.

MHF 4404 AS-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.

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

MLS 3220C HPA-M&M 3(3,3)
Techniques in Clinical Microscopy: Analysis of body fluids and urine by chemical and microscopic methods with interpretation and correlation to human disease.

MLS 3305 HPA-M&M 3(3,0)
Hematology: PR: Admission to the professional phase of the MLS program or C.I. Overview of the hematopoietic system and disease states associated with blood and bone marrow

MLS 3305L HPA-M&M 1(0,6)
Hematology Lab: PR: MLS 3305C. Practical laboratory procedures routinely performed for analyzing hematologic abnormalities.

MLS 3705 HPA-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.

MLS 4334C HPA-M&M 3(3,2)
Hemostasis: Overview of hemostatic and fibrinolytic conditions at the time of disease and the relationship of lab tests to diagnosis.

MLS 4420C HPA-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.

MLS 4430C HPA-M&M 2(1,3)
Clinical Parasitology: PR: Admission to the professional phase of the MLS program or C.I. Instruction and laboratory practice in the examination and study of clinical material for the detection and identification of animal parasites.

MLS 4460 HPA-M&M 4(2,6)
Clinical Pathogenic Microbiology: PR: or CR: MCB 3203 and admission to the professional phase of the MLS program. Isolation and pathogenic bacteria and serological methods; interpretation of abnormal results, with correlation to disease.

MLS 4505C HPA-M&M 3(3,0)
Immunodiagnosics: PR: PCB 3233. Theory and application of immunologic principles and their use in diagnosis of human disease.

MLS 4550 HPA-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.

MLS 4625 HPA-M&M 3(3,0)
Advanced Clinical Chemistry I: PR: CHM 2210. Correlation of lab test to specific disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electrolytes, and blood gases.

MLS 4625L HPA-M&M 1(0,3)
Advanced Clinical Chem I Lab: CR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory.

MLS 4630 HPA-M&M 3(3,0)
Advanced Clinical Chemistry II: PR: Admission to professional phase of MLS or C.I. Correlation of laboratory tests to specific human disease states.

MLS 4630L HPA-M&M 1(0,3)
Advanced Clinical Chem II Lab: PR: CHM 2205 or C.I. CR: MLS 4630C. Performance of laboratory procedures routinely used in a clinical chemistry laboratory.

MLS 4830C HPA-M&M 4(4,8)
Interpretive & Practical Clinical Chemistry: PR: Admission to the MLS program, MLS 4625C, MLS 4630C. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on practice both in the student lab and affiliate.

MLS 4831C HPA-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.

MLS 4832C HPA-M&M 4(4,8)
Interpretive & Practical Hematology: PR: Admission to the the MLS program, MLS 3305C, MLS 4334C. Advanced study of hematology and pathophysiological correlation to hematology disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates.

MLS 4833C HPA-M&M 4(4,8)
Diagnostic Microbiology: PR: Admission to the MLS program, MLS 4460. 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.

MLS 4834C HPA-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.

MLS 4910 HPA-M&M 1(1,0)
Introduction to Clinical Research: PR: MLS 3220C, MLS 4625C, MLS 4550. Introduces MLS students to different types of research within the clinical setting.

MLS 4933 HPA-M&M 1(1,0)
Medical Technology Seminar: PR: MLS Senior status. Review of MLS coursework, case study discussions and guest lectures describing employment opportunities. May be repeated for credit.

MLS 5710 HPA-M&M 3(3,0)
Current Concepts in Laboratory Management: Overview of current administration and supervision concepts in a clinical laboratory to include laboratory planning, personnel administration, and financial management.

MMC 3420 AS-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.			
MMC 4200 AS-COMM 3(3,0) Mass Communication Law: PR: Open only to majors in Journalism, Ad/PR, or RTV or minors in Mass Communication. The legal rights and responsibilities of the mass media.			
MMC 4254 AS-COMM 3(3,0) Ad/Pr campaigns: PR: ADV 3000, PUR 4000 and either PUR 3100 or ADV 4101. Planning and managing communication campaigns that integrate both advertising and public relations strategies			
MMC 4263 AS-COMM 3(3,0) New Media Technologies: PR: Majors only, RTV 3200. An examination of the technologies impacting the communications media environment and society.			
MMC 4300 AS-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.			
MMC 4602 AS-COMM 3(3,0) Contemporary Media Issues: PR: JOU 2100C, PUR 3100 or RTV 3301. Relationship between the mass media and society; examination of social and ethical issues and responsibilities of the media's relationship with government.			
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.			
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.			
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.			
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.			
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.			
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.			
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.			
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.			
MTG 4212 AS-MATH 4(4,0) Modern Geometrics: PR: MAC 2311 or C.I. Sets of axioms and finite geometries, groups of transformations, Euclidean motions of 2-space and 3-space, convexity in 2-space and 3-space. Euclidean geometry of polygon and circle, constructible numbers, constructions and non-Euclidean geometry.			
MTG 4302 AS-MATH 3(3,0) Introduction to Topology: PR: MHF 3302 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness.			
MTG 5256 AS-MATH 3(3,0) Differential Geometry: PR: MAA 4227 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.			
MUC 1101C AS-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.			
MUC 2104C AS-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.			
MUC 3105C AS-MUSIC 2(1,1) Composition III: PR: MUC 1101C and MUC 2104C. Continuation of Composition II. Competence determined by faculty jury.			
MUC 3311 AS-MUSIC 3(2,2) MIDI Sequencing I: PR: Keyboard ability, Junior standing, and C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing.			
MUC 4106C AS-MUSIC 2(1,1) Composition IV: PR: MUC 1101C, MUC 2104C, MUC 3105C. Continuation of Composition III. Competence determined by faculty jury.			
MUC 4313 AS-MUSIC 3(3,0) MIDI Sequencing III: PR: MUC 4441, Junior standing or C.I. Technical aspects of MIDI usage, including MIDI specification, SysEx, and MIDI machine control.			
MUC 4441 AS-MUSIC 3(3,0) MIDI Sequencing II: PR: MUC 3311, Junior standing, and C.I. Continuation of sequencing, sampling, and inactive digital music technology.			
MUC 4611C AS-MUSIC 3(2,1) Computer Animation and Digital Music: PR: MUC 4441 or FIL 3286C and C.I. Music students and computer animation students work collaboratively to produce animation projects with original musical scores and sound effects.			
MUC 4612C AS-MUSIC 3(2,2) Film/Video Composition: PR: MUC 1101C, MUC 2104C, MUC 3311, MUC 4441. Music composition for film, video, computer games.			
MUE 1291 AS-MUSIC 1(0,1) Classroom Instruments: Instruction in recorder and guitar, as it applies to classroom usage for music educators.			
MUE 2040 AS-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.			
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.			
MUE 2440 AS-MUSIC 1(0,2) String Techniques: PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical techniques.			
MUE 2450 AS-MUSIC 1(1,0) Woodwind Techniques I: PR: MUED major, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques.			
MUE 2460 AS-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.			
MUE 2470 AS-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.			
MUE 3210 ED-CFCS 3(2,1) Music in the Elementary School: Fundamental procedures for teaching elementary school music, stressing appropriate music materials and activities for different age groups; selected experience in music.			
MUE 3451 AS-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.			
MUE 4311 ED-CFCS 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.			
MUE 4330 ED-CFCS 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.			
MUE 4350 ED-TLP 2-3(2-3,0) General Music Pre-K through Grade 8: PR: Consent of instructor. Designed for music educators. Exploration of music materials and teaching strategies for enhancing students' learning through music. Experience with recorder, movement, choral, conducting, and curriculum infusion included. Implementation project available. May be repeated for credit. Graded S/U.			
MUE 4480C AS-MUSIC 1(1,1) Marching Band Techniques: PR: MUT 1112 and C.I. Principles of organizing and training marching bands: Planning, charting football shows, rehearsal problems. Guided observations. May be repeated for credit.			
MUE 4481 AS-MUSIC 1(1,0) Jazz Pedagogy: PR: Music major, MUT 1112 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level.			
MUG 3104 AS-MUSIC 2(1,1) Basic Conducting: Fundamental techniques and practice in conducting.			
MUG 3202 AS-MUSIC Variable Choral Conducting and Materials: PR: MUG 3104. Fundamental principles of choral conducting and rehearsal techniques including an examination of materials.			
MUG 3302 AS-OASIS Variable Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials.			

UCF Courses and Descriptions

MUG 4103	AS-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.	MUN 2023	AS-MUSIC	1(0,2)	Synthesizer Ensemble: PR: C.I. and keyboard ability. Rehearsal and performance of music for synthesizers. May be repeated for credit.	MUN 3713	AS-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.
MUH 4211	AS-MUSIC	3(3,0)	History and Literature I: PR: MUT 1112. In-depth study of the development of Western musical styles from antiquity to present.	MUN 2442	AS-MUSIC	1(1,0)	Percussion/Mallet Ensemble: PR: C.I. Preparation and performance of music for percussion with mallets. May be repeated for credit.	MUN 3714	AS-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.
MUH 4212	AS-MUSIC	3(3,0)	History and Literature II: PR: MUH 4211. Continuation of MUH 4211.	MUN 3113	AS-MUSIC	2(0,8)	Marching Band: PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit.	MUN 3717	AS-MUSIC	1(0,3)	Jazz/Pop Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit.
MUH 4218	AS-MUSIC	1(1,0)	Review of Music History: PR: C.I. A review of music history from Ancient Greece to the present.	MUN 3123	AS-MUSIC	1(0,3)	Concert Band: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit.	MUN 3723	AS-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.
MUH 4963	AS-MUSIC	0(1,0)	Music History Proficiency Exam: PR: MUH 4212. A comprehensive examination in music history. Required of music majors. May be repeated one time. Graded S/U.	MUN 3143	AS-MUSIC	1(0,4)	Wind Ensemble: Open to all students by audition. Study and performance of music for wind ensemble and band. May be repeated for credit.	MUN 4473	AS-MUSIC	1(0,2)	Early Music Ensemble: PR: C.I. Study and performance of pre-classical music. May be repeated for credit.
MUL 2010	AS-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.	MUN 3283	AS-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.	MUO 3503	AS-MUSIC	3(0,3)	Opera Workshop: PR: C.I. Study of expressive emotion in relation to musical theatre: staging and performance of prepared studies of popular music for vocal ensembles. May be repeated for credit.
MUL 2016	AS-MUSIC	3(3,0)	Evolution of Jazz: Survey of jazz literature and performance.	MUN 3313	AS-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.	MUS 1010	AS-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.
MUL 2720	AS-MUSIC	3(3,0)	Music of the World: Music in cross-cultural context. Relation of music to religion and society.	MUN 3323	AS-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.	MUS 1201	AS-MUSIC	1(1,0)	European Diction: A survey of French, German and Italian diction for music educators.
MUL 3400	AS-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.	MUN 3343	AS-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.	MUS 2360C	AS-MUSIC	3(2,2)	Introduction to Music Technology: PR: Music major (Music Education, Performance, BA) or Digital Media major. Utilization of computers and keyboards to acquire skills in midi sequencing, notation, CD ROMS, and the Internet.
MUL 3401	AS-MUSIC	2(1,1)	Piano Literature II: PR: MUL 3400. Continuation of MUL 3400.	MUN 3423	AS-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.	MUS 3953	AS-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 repeat one time.
MUL 3432	AS-MUSIC	2(2,0)	String Literature: PR: Music major and C.I. Survey of string solo/chamber music literature from the 16th century to the present.	MUN 3430	AS-MUSIC	1(1,0)	Trumpet Ensemble: PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit.	MUS 4293	AS-MUSIC	1(1,0)	Music Theatre Ensemble: PR: Junior standing and C.I. Rehearse, study, and preparation of musical theatre score for pit orchestra and off-stage singers, culminating in public performance with University Theatre. May be repeated for credit.
MUL 3441	AS-MUSIC	2(2,0)	Woodwind Literature: PR: Junior standing, C.I., Music major. Survey of woodwind literature from the 16th century to the present.	MUN 3433	AS-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.	MUS 4330	AS-MUSIC	2(1,1)	Recording Techniques for Classical Music: PR: MUS 2320 or C.I. Concert hall recording techniques for classical music.
MUL 3442	AS-MUSIC	2(2,0)	Brass Literature: PR: Music major (Brass), Junior standing, C.I. Survey of brass solo/ensemble literature from 16th century to present.	MUN 3443	AS-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.	MUS 4347C	AS-MUSIC	3(2,2)	Digital Notation: PR: MUC 3311. Work on projects utilizing computer notational software applications.
MUL 3463	AS-MUSIC	2(2,0)	Percussion Literature: PR: Music major (Percussion), Junior standing, C.I. Survey of music written for percussion instruments.	MUN 3444	AS-MUSIC	1(1,0)	Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit.	MUS 4401	AS-MUSIC	2(1,1)	Studio Teaching: PR: C.I. Management of the music studio: responsibilities and techniques of private instruction for the studio teacher, principles of psychology of music. May be repeated for credit.
MUL 3603	AS-MUSIC	1(1,1)	American/English Song Literature: PR: C.I. Survey of songs written by American or English composers.	MUN 3453	AS-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.	MUS 4635C	AS-MUSIC	3(2,2)	Sound Design: PR: MUC 3311, MUC 4441. Audio storage processing/compression for digital media.
MUL 3604	AS-MUSIC	1(1,1)	German Song Literature: PR: Music major or C.I. Survey of German song literature.	MUN 3483	AS-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.	MUS 4645C	AS-MUSIC	3(2,2)	Music Post Production Techniques: PR: MUC 3311, MUC 4441, MUC 4612C, MUS 4635C. Audio and video film post production process with the video recording format. Audio and multi-media technologies
MUL 3605	AS-MUSIC	1(1,1)	French Song Literature: PR: Music major or C.I. Survey of French song literature.	MUN 3494	AS-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.				
MUM 5806	AS-MUSIC	3(3,0)	Performing Arts Management: PR: C.I. Structure of nonprofit performing arts organization (PAOs), examining the fundamental elements of administration, audience development, marketing, and fund-raising								

will be used in the synchronization of SMPTE time code.

MUS 4905 AS-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.

MUS 4954 AS-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 repeat one time.

MUS 5365 AS-MUSIC 3(3,0)
Music and Technology: PR: Graduate Student. The emergence of technology in music including MIDI, CD ROM, and the high-tech music classroom.

MUT 1002 AS-MUSIC 3(3,0)
Fundamentals of Music II: PR: MUT 1004. Theory and sight singing skills.

MUT 1004 AS-MUSIC 3(3,0)
Fundamentals of Music I: Basic music theory and reading music at the keyboard.

MUT 1111 AS-MUSIC 2(2,1)
Music Theory IA: CR: MUT 1241. Writing, performance, analysis of and music of various stylistic periods.

MUT 1112 AS-MUSIC 2(2,1)
Music Theory IB: PR: MUT 1111, CR: MUT 1242. Continuation of MUT 1111.

MUT 1241 AS-MUSIC 1(0,2)
Ear Training and Sight Singing IA: Aural and visual/oral comprehension of elements of music - rhythm, melody, harmony, form. Intended to be taken with MUT 1111.

MUT 1242 AS-MUSIC 1(0,2)
Ear Training and Sight Singing IB: PR: MUT 1241. Continuation of MUT 1241. Intended to be taken with MUT 1112.

MUT 2116 AS-MUSIC 2(2,1)
Music Theory IIA: PR: MUT 1112, CR: MUT 2246. Continuation of MUT 1111-1112; writing, performance, and analysis of music of various stylistic periods.

MUT 2117 AS-MUSIC 2(2,1)
Music Theory IIB: PR: MUT 2116, CR: 2247. Continuation of MUT 2116.

MUT 2246 AS-MUSIC 1(0,2)
Ear Training and Sight Singing IIA: PR: MUT 1242. Continuation of MUT 1242. Intended to be taken with MUT 2116.

MUT 2247 AS-MUSIC 1(0,2)
Ear Training and Sight Singing IIB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117.

MUT 2960 AS-MUSIC 0(1,0)
Ear-Training Proficiency Exam: PR: MUT 2247. Demonstration of basic skills in ear-training. Required of Music majors. May repeat one time. Graded S/U.

MUT 2961 AS-MUSIC 0(1,0)
Sight-Singing Proficiency Exam: PR: MUT 2247. Basic skills in sight-singing. Required of Music majors. May repeat one time. Graded S/U.

MUT 2962 AS-MUSIC 0(1,0)
Music Theory Proficiency Exam: PR: MUT 2117. Demonstration of basic skills in part-writing, visual analysis, counterpoint, instrumentation and form. Required for Music majors. May repeat one time. Graded S/U.

MUT 3170 AS-MUSIC 2(1,1)
Jazz Theory I: PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242. Examine traditional harmony, melody, and

rhythm.

MUT 3171 AS-MUSIC 2(1,1)
Jazz Theory II: PR: MUT 3170. Continuation of Jazz Theory I; examining jazz harmony, melody, and rhythm.

MUT 3401 AS-MUSIC 3(3,0)
Counterpoint: PR: MUT 2117. Discuss, analyze, and write counterpoint exercises. 18th, 19th, and 20th scores will be examined.

MUT 3571 AS-MUSIC 3(3,0)
20th Century Musical Analysis: PR: MUT 2116 and MUT 2117 or equivalent. Overview of 20th century music, including musical compositions, techniques of musical analysis, and styles.

MUT 3641 AS-MUSIC 2(0,2)
Jazz Improvisation I: PR: MUT 3171, Junior standing or C.I. Jazz improvisation with an emphasis on listening, harmony, arranging, and jazz forms. Melodic and harmonic dictation at the keyboard.

MUT 3642 AS-MUSIC 2(0,2)
Jazz Improvisation II: PR: MUT 3641 Junior standing or C.I. A continuation of Jazz Improvisation I.

MUT 4031 AS-MUSIC 1(1,0)
Review of Music Theory: PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit.

MUT 4344 AS-MUSIC 1(1,0)
Seminar in Music Arranging: Scoring for choral and instrumental ensembles.

MUT 5381 AS-MUSIC 3(3,0)
Arranging and Composing Music: PR: Satisfactory placement tests in theory, sight-singing, and ear training. Arranging and composing music for instrumental and vocal ensembles. Some emphasis on compositional techniques of the 20th century.

MVB 1211 AS-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.

MVB 1212 AS-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.

MVB 1213 AS-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.

MVB 1214 AS-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.

MVB 1215 AS-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.

MVB 1411 AS-MUSIC 2(1,1)
Trumpet I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1412 AS-MUSIC 2(1,1)
French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1413 AS-MUSIC 2(1,1)
Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1414 AS-MUSIC 2(1,1)
Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1415 AS-MUSIC 2(1,1)
Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 2421 AS-MUSIC 2(1,1)
Trumpet II: PR: MVB 1411 and competence determined by faculty jury. Continuation of MVB 1411. May be repeated for credit.

MVB 2422 AS-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.

MVB 2423 AS-MUSIC 2(1,1)
Trombone II: PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit.

MVB 2424 AS-MUSIC 2(1,1)
Baritone II: PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit.

MVB 2425 AS-MUSIC 2(1,1)
Tuba II: PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit.

MVB 3431 AS-MUSIC 2(1,1)
Trumpet III: PR: MVB 2421 and competence determined by faculty jury. Continuation of MVB 2421. May be repeated for credit.

MVB 3432 AS-MUSIC 2(1,1)
French Horn III: PR: MVB 2422 and competence determined by faculty jury. Continuation of MVB 2422. May be repeated for credit.

MVB 3433 AS-MUSIC 2(1,1)
Trombone III: PR: MVB 2423 and competence determined by faculty jury. Continuation of MVB 2423. May be repeated for credit.

MVB 3434 AS-MUSIC 2(1,1)
Baritone III: PR: MVB 2424 and competence determined by faculty jury. Continuation of MVB 2424. May be repeated for credit.

MVB 3435 AS-MUSIC 2(1,1)
Tuba III: PR: MVB 2425 and competence determined by faculty jury. Continuation of MVB 2425. May be repeated for credit.

MVB 4441 AS-MUSIC 2(1,1)
Trumpet IV: PR: MVB 3431 and competence determined by faculty jury. Continuation of MVB 3431. May be repeated for credit.

MVB 4442 AS-MUSIC 2(1,1)
French Horn IV: PR: MVB 3432 and competence determined by faculty jury. Continuation of MVB 3432. May be repeated for credit.

MVB 4443 AS-MUSIC 2(1,1)
Trombone IV: PR: MVB 3433 and competence determined by faculty jury. Continuation of MVB 3433. May be repeated for credit.

MVB 4444 AS-MUSIC 2(1,1)
Baritone IV: PR: MVB 3434 and competence determined by faculty jury. Continuation of MVB 3434. May be repeated for credit.

MVB 4445 AS-MUSIC 2(1,1)
Tuba IV: PR: MVB 3435 and competence determined by faculty jury. Continuation of MVB 3435. May be repeated for credit.

MVB 4640 AS-MUSIC 2(2,0)
Brass Pedagogy: PR: Music major and C.I. Methods and materials for teaching instruments in a small group or studio setting.

UCF Courses and Descriptions

MVB 5451	AS-MUSIC	2(1,0)	mined by faculty jury. Continuation of MVK 3433. May be repeated for credit.	Intended for non-music majors. May be repeated for credit.
Trumpet V: PR: C.I. May be repeated for credit.				
MVB 5452	AS-MUSIC	2(1,0)		
French Horn V: PR: C.I. May be repeated for credit.				
MVB 5453	AS-MUSIC	2(1,0)		
Trombone V: PR: C.I. May be repeated for credit.				
MVB 5454	AS-MUSIC	2(1,0)		
Baritone V: PR: C.I. May be repeated for credit.				
MVB 5455	AS-MUSIC	2(1,0)		
Tuba V: PR: C.I. May be repeated for credit.				
MVK 1111	AS-MUSIC	1(0,2)		
Class Piano I: Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano.				
MVK 1211	AS-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.				
MVK 1213	AS-MUSIC	1(1,1)		
Secondary Organ: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in organ. Intended for non-music majors. May be repeated for credit.				
MVK 1411	AS-MUSIC	2(1,1)		
Piano I: PR: Major in music or consent of chairperson; audition. May be repeated for credit.				
MVK 1413	AS-MUSIC	2(1,1)		
Organ I: PR: Major in music or consent of chairperson; audition. May be repeated for credit.				
MVK 1800	AS-MUSIC	2(2,0)		
Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training.				
MVK 1801	AS-MUSIC	2(2,0)		
Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I				
MVK 2121	AS-MUSIC	1(0,2)		
Class Piano II: PR: MVK 1111 or C.I. Continuation of MVK 1111. Not open to music majors whose major performing medium is piano.				
MVK 2421	AS-MUSIC	2(1,1)		
Piano II: PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit.				
MVK 2423	AS-MUSIC	2(1,1)		
Organ II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.				
MVK 3131	AS-MUSIC	1(0,2)		
Class Piano III: PR: MVK 1121 or C.I. Continuation of MVK 1121.				
MVK 3431	AS-MUSIC	2(1,1)		
Piano III: PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit.				
MVK 3433	AS-MUSIC	2(1,1)		
Organ III: PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit.				
MVK 4141	AS-MUSIC	1(0,2)		
Class Piano IV: PR: MVK 1131 or C.I. Continuation of MVK 1131.				
MVK 4441	AS-MUSIC	2(1,1)		
Piano IV: PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit.				
MVK 4443	AS-MUSIC	2(1,1)		
Organ IV: PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit.				
MVK 4640	AS-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.				
MVK 4641	AS-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.				
MVK 4960	AS-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. May repeat one time. Graded S/U.				
MVK 5451	AS-MUSIC	2(1,0)		
Piano V: PR: C.I. May be repeated for credit.				
MVK 5453	AS-MUSIC	2(1,0)		
Organ V: PR: C.I. May be repeated for credit.				
MVO 1214	AS-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.				
MVO 5250	AS-MUSIC	1(1,0)		
Advanced Secondary Instruction: PR: Graduate standing and C.I. Advanced instructional techniques on a secondary instrument or in voice. May be repeated for credit.				
MVP 1211	AS-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.				
MVP 1411	AS-MUSIC	2(1,1)		
Percussion I: PR: Major in music or consent of chair; audition. May be repeated for credit.				
MVP 2421	AS-MUSIC	2(1,1)		
Percussion II: PR: MVP 1411 and competence determined by faculty jury. Continuation of MVP 1411. May be repeated for credit.				
MVP 3431	AS-MUSIC	2(1,1)		
Percussion III: PR: MVP 2421 and competence determined by faculty jury. Continuation of MVP 2421. May be repeated for credit.				
MVP 3630	AS-MUSIC	2(2,0)		
Percussion Pedagogy: PR: Music major, C.I. Teaching methods and materials for percussion students and groups.				
MVP 4441	AS-MUSIC	2(1,1)		
Percussion IV: PR: MVP 3431 and competence determined by faculty jury. Continuation of MVP 3431. May be repeated for credit.				
MVP 5451	AS-MUSIC	2(1,0)		
Percussion V: PR: C.I. May be repeated for credit.				
MVS 1211	AS-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.				
MVS 1212	AS-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.				
MVS 1213	AS-MUSIC	1(0,1)		
Secondary Cello: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in cello.				
MVS 1214	AS-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.				
MVS 1216	AS-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.				
MVS 1411	AS-MUSIC	2(1,1)		
Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit.				
MVS 1412	AS-MUSIC	2(1,1)		
Viola I: PR: Major in music or consent of chair; audition. May be repeated for credit.				
MVS 1413	AS-MUSIC	2(1,1)		
Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit.				
MVS 1414	AS-MUSIC	2(1,1)		
Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit.				
MVS 1415	AS-MUSIC	2(1,1)		
Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit.				
MVS 1416	AS-MUSIC	2(1,1)		
Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit.				
MVS 2421	AS-MUSIC	2(1,1)		
Violin II: PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit.				
MVS 2422	AS-MUSIC	2(1,1)		
Viola II: PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit.				
MVS 2423	AS-MUSIC	2(1,1)		
Cello II: PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit.				
MVS 2424	AS-MUSIC	2(1,1)		
Bass II: PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit.				
MVS 2425	AS-MUSIC	2(1,1)		
Harp II: PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.				
MVS 2426	AS-MUSIC	2(1,1)		
Guitar II: PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit.				
MVS 3431	AS-MUSIC	2(1,1)		
Violin III: PR: MVS 2421 and competence determined by faculty jury. Continuation of MVS 2421. May be repeated for credit.				
MVS 3432	AS-MUSIC	2(1,1)		
Viola III: PR: MVS 2422 and competence determined by faculty jury. Continuation of MVS 2422. May be repeated for credit.				
MVS 3433	AS-MUSIC	2(1,1)		
Cello III: PR: MVS 2423 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit.				
MVS 3434	AS-MUSIC	2(1,1)		
Bass III: PR: MVS 2424 and competence determined by faculty jury. Continuation of MVS 2424. May be repeated for credit.				

repeated for credit.

MVS 3435 AS-MUSIC 2(1,1)
Harp III: PR: MVS 2425 and competence determined by faculty jury. Continuation of MVS 2425. May be repeated for credit.

MVS 3436 AS-MUSIC 2(1,1)
Guitar III: PR: MVS 2426 and competence determined by faculty jury. Continuation of MVS 2426. May be repeated for credit.

MVS 4441 AS-MUSIC 2(1,1)
Violin IV: PR: MVS 3431 and competence determined by faculty jury. Continuation of MVS 3431. May be repeated for credit.

MVS 4442 AS-MUSIC 2(1,1)
Viola IV: PR: MVS 3432 and competence determined by faculty jury. Continuation of MVS 3432. May be repeated for credit.

MVS 4443 AS-MUSIC 2(1,1)
B: PR: MVS 3433 and competence determined by faculty jury. Continuation of MVS 3433. May be repeated for credit.

MVS 4444 AS-MUSIC 2(1,1)
Bass IV: PR: MVS 3434 and competence determined by faculty jury. Continuation of MVS 3434. May be repeated for credit.

MVS 4445 AS-MUSIC 2(1,1)
Harp IV: PR: MVS 3435 and competence determined by faculty jury. Continuation of MVS 3435. May be repeated for credit.

MVS 4446 AS-MUSIC 2(1,1)
Guitar IV: PR: MVS 3436 and competence determined by faculty jury. Continuation of MVS 3436. May be repeated for credit.

MVS 4640 AS-MUSIC 2(2,0)
String Pedagogy: PR: Music major and C.I. Methods and materials for teaching string instruments in a small group or studio setting.

MVS 5451 AS-MUSIC 2(1,0)
Violin V: PR: C.I. May be repeated for credit.

MVS 5452 AS-MUSIC 2(1,0)
Viola V: PR: C.I. May be repeated for credit.

MVS 5453 AS-MUSIC 2(1,0)
Cello V: PR: C.I. May be repeated for credit.

MVS 5454 AS-MUSIC 2(1,0)
Bass V: PR: C.I. May be repeated for credit.

MVS 5455 AS-MUSIC 2(1,0)
Harp V: PR: C.I. May be repeated for credit.

MVS 5456 AS-MUSIC 2(1,0)
Guitar V: PR: C.I. May be repeated for credit.

MVV 1111 AS-MUSIC 1(0,1)
Class Voice: Class instruction in beginning voice. May be repeated for credit.

MVV 1211 AS-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.

MVV 1411 AS-MUSIC 2(1,1)
Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 2322 AS-MUSIC 1(1,0)
Singing Broadway: PR: Concurrent enrollment in MVV 1411 or MVV 2421 or MVV 3431 or MVV 4441. Hearing and singing the American music called "Broadway." Students learn singing techniques utilizing principles of the Italian "Bel Canto" school. May be repeated for credit.

MVV 2421 AS-MUSIC 2(1,1)

Voice II: PR: MVV 1411 and competence determined by faculty jury. Continuation of MVV 1411. Major in music or consent of chair; audition. Private and class lessons. May be repeated for credit.

MVV 3431 AS-MUSIC 2(1,1)
Voice III: PR: MVV 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit.

MVV 4441 AS-MUSIC 2(1,1)
Voice IV: PR: MVV 3431 and competence determined by faculty jury. Continuation of MVV 3431. May be repeated for credit.

MVV 4640 AS-MUSIC 1(1,0)
Voice Pedagogy I: PR: C.I. Methods, materials for vocalists; teachers, conductors; voice production; diagnosis of problems and correction; demonstration and observation of teaching; beginning to intermediate levels. May be repeated for credit.

MVV 4641 AS-MUSIC 1(1,0)
Voice Pedagogy II: PR: C.I. Continuation of MVV 4640. Intermediate to advanced levels. May be repeated for credit.

MVV 5451 AS-MUSIC 2(1,0)
Voice V: PR: C.I. May be repeated for credit.

MVW 1211 AS-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.

MVW 1212 AS-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.

MVW 1213 AS-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.

MVW 1214 AS-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.

MVW 1215 AS-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.

MVW 1411 AS-MUSIC 2(1,1)
Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1412 AS-MUSIC 2(1,1)
Oboe I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1413 AS-MUSIC 2(1,1)
Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1414 AS-MUSIC 2(1,1)
Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1415 AS-MUSIC 2(1,1)
Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 2421 AS-MUSIC 2(1,1)
Flute II: PR: MVW 1411 and competence determined by faculty jury. Continuation of MVW 1411. May be repeated for credit.

MVV 2422 AS-MUSIC 2(1,1)
Oboe II: PR: MVW 1412 and competence determined

by faculty jury. Continuation of MVW 1412. May be repeated for credit.

MVW 2423 AS-MUSIC 2(1,1)
Clarinet II: PR: MVW 1413 and competence determined by faculty jury. Continuation of MVW 1413. May be repeated for credit.

MVW 2424 AS-MUSIC 2(1,1)
Bassoon II: PR: MVW 1414 and competence determined by faculty jury. Continuation of MVW 1414. May be repeated for credit.

MVW 2425 AS-MUSIC 2(1,1)
Saxophone II: PR: MVW 1415 and competence determined by faculty jury. Continuation of MVW 1415. May be repeated for credit.

MVW 3431 AS-MUSIC 2(1,1)
Flute III: PR: MVW 2421 and competence determined by faculty jury. Continuation of MVW 2421. May be repeated for credit.

MVW 3432 AS-MUSIC 2(1,1)
Oboe III: PR: MVW 2422 and competence determined by faculty jury. Continuation of MVW 2422. May be repeated for credit.

MVW 3433 AS-MUSIC 2(1,1)
Clarinet III: PR: MVW 2423 and competence determined by faculty jury. Continuation of MVW 2423. May be repeated for credit.

MVW 3434 AS-MUSIC 2(1,1)
Bassoon III: PR: MVW 2424 and competence determined by faculty jury. Continuation of MVW 2424. May be repeated for credit.

MVW 3435 AS-MUSIC 2(1,1)
Saxophone III: PR: MVW 2425 and competence determined by faculty jury. Continuation of MVW 2425. May be repeated for credit.

MVW 3630 AS-MUSIC 2(2,0)
Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles.

MVW 4441 AS-MUSIC 2(1,1)
Flute IV: PR: MVW 3431 and competence determined by faculty jury. Continuation of MVW 3431. May be repeated for credit.

MVW 4442 AS-MUSIC 2(1,1)
Oboe IV: PR: MVW 3432 and competence determined by faculty jury. Continuation of MVW 3432. May be repeated for credit.

MVW 4443 AS-MUSIC 2(1,1)
Clarinet IV: PR: MVW 3433 and competence determined by faculty jury. Continuation of MVW 3433. May be repeated for credit.

MVW 4444 AS-MUSIC 2(1,1)
Bassoon IV: PR: MVW 3434 and competence determined by faculty jury. Continuation of MVW 3434. May be repeated for credit.

MVW 4445 AS-MUSIC 2(1,1)
Saxophone IV: PR: MVW 3435 and competence determined by faculty jury. Continuation of MVW 3435. May be repeated for credit.

MVW 5451 AS-MUSIC 2(1,0)
Flute V: PR: C.I. May be repeated for credit.

MVW 5452 AS-MUSIC 2(1,0)
Oboe V: PR: C.I. May be repeated for credit.

MVW 5453 AS-MUSIC 2(1,0)
Clarinet V: PR: C.I. May be repeated for credit.

MVW 5454 AS-MUSIC 2(1,0)
Bassoon V: PR: C.I. May be repeated for credit.

MVW 5455 AS-MUSIC 2(1,0)
Saxophone V: PR: C.I. May be repeated for credit.

UCF Courses and Descriptions

NGR 5003	HPA-NURS	3(3,0)	issues related to advanced practice nursing.	NUR 3198	HPA-NURS	5(5,0)	Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiological basis of illness, and principles of pharmacology.			
Advanced Health Assessment, Health Promotion, & Diagnostic Reasoning: PR: B.S. in Nursing; Basic Hlth Assess course. Co: Adv Hlth Assess Clinical: NGR 5141. Advanced health assessment, health promotion, and diagnostic reasoning for individuals over the lifespan and populations.			NGR 5791	HPA-NURS	3(3,0)	Teaching Strategies for Health Professionals: PR: Bachelors in nursing or consent of instructor. Analysis of internal and external controls on curriculum development for health professionals; application of selected teaching learning theories to classroom and clinical practice.	NUR 3235	HPA-NURS	5(5,0)	Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. level first semester courses or C.I. Biopsychosocial nursing interventions in physical and mental health problems with emphasis on family-centered care in the community.
NGR 5004L	HPA-NURS	2(0,2)	NGR 5800	HPA-NURS	4(4,0)	Nursing Theory/Research I: PR: Baccalaureate degree in Nursing or NUR 4836, undergraduate statistics course or C.I. Explores and analyzes the conceptual and theoretical bases of nursing, examines and critiques research designs and methods commonly used in nursing research.	NUR 3235L	HPA-NURS	4(0,4)	Clinical Practice in Promoting Physical and Mental Health in the Community: PR: Completion fo all Jr. level first semester courses or C.I. Clinical application of biopsychosocial nursing interventions in physical & mental health problems with emphasis on family-centered care in the community. Graded S/U.
Advanced Health Assessment, Health Promotion, & Diagnostic Reasoning Clinical: PR: Baccalaureate in Nursing Basic Health Assessment course. Application of skills for advanced health assessment, health promotion, and diagnostic reasoning for individuals over the lifespan and populations. Graded S/U.			NGR 5801	HPA-NURS	4(4,0)	Nursing Research II/Statistics: PR: BSN; NGR 5800; Undergraduate Statistics or C.I. Measurement strategies in nursing research, data planning and collection techniques, statistical data analysis and interpretation of results, research proposal development, outcomes research and statistical software.	NUR 3616	HPA-NURS	3(3,0)	Promoting Healthy Families Across the Lifespan: PR: Admission to the School of Nursing. Theoretical foundations related to primary care nursing practice with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood, and aging.
NGR 5090	HPA-NURS	3(3,0)	NGR 5871	HPA-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.	NUR 3616L	HPA-NURS	3(0,3)	Clinical Practice in Promoting Healthy Families: PR: Admission to the School of Nursing. Primary care clinical nursing practice in community settings with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood and aging. Graded S/U.
Urgent Care for the Advanced Practice Nurse: PR: NGR 6240C or C.I. Advanced practice evaluation and management of clients in urgent care settings.			NGR 5880	HPA-NURS	3(3,0)	Professional Ethics: PR: C.I. Clinical cases and other professional ethical issues related to codes of conduct and research; application of ethical principles. May be repeated for credit.	NUR 3617	HPA-NURS	3(3,0)	Promoting Healthy Communities: PR: Admission to the School of Nursing. Exploration of community-oriented nursing practice, including epidemiological, community health, nursing, economic, and health care system perspectives. May be repeated for credit.
NGR 5141	HPA-NURS	3(3,0)	NGR 5930	HPA-NURS	3(3,0)	Issues in Health Care for the Homeless: PR: Pre-senior level baccalaureate status or admission to the graduate program; C.I. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless.	NUR 3637	HPA-NURS	5(5,0)	Accelerated Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN Option; NUR 3065, NUR 3026L, NUR 3825, NUR 3637L. Application of concepts of family and community nursing as it relates to health across the lifespan including childbearing, childrearing, childhood, adulthood, and aging.
Pathophysiological Bases for Advanced Nursing Practice: PR: Baccalaureate Degree in Nursing. Critical examination of the physiological and pathophysiological mechanisms affecting individuals.			NGR 5931	HPA-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.	NUR 3637L	HPA-NURS	2(0,2)	Accelerated Clinical Practice in Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN option, Coreqs: NUR 3637, NUR 3026L; NUR 3065, NUR 3825. Primary care nursing practice with healthy communities and families across the lifespan, including common health promotion activities related to childbearing, childrearing, childhood, adulthood, and aging. Graded S/U.
NGR 5252	HPA-NURS	3(3,0)	NUR 1015	HPA-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.	NUR 3795	HPA-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.
Psycho-Social Factors and Health Care Outcomes in the Elderly: PR: Post-baccalaureate or graduate status or C.I. Interdisciplinary perspective to examine the relationship between client characteristics, client health care provider interactions and health care outcomes in the elderly.			NGR 3026L	HPA-NURS	1(0,2)	Therapeutic Interventions for Health Professionals: PR: Admission to Nursing Program. Theoretical rationale and psychomotor development for therapeutic interventions in nursing practice. Graded S/U.	NUR 3809	HPA-NURS	3(3,0)	Transitional Concepts in Nursing I: PR: Florida RN status. Exploration of issues and theories related to professional nursing practice to facilitate transition of RN to baccalaureate level of nursing practice.
NGR 5635	HPA-NURS	3(3,0)	NUR 3065	HPA-NURS	3(2,1)	Health Assessment: PR: PCB 3703C, ZOO 3733C or Florida RN License. Concepts of health assessment of clients.	NUR 3825	HPA-NURS	1(1,0)	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.
Transdisciplinary and Community-Based Strategies of Health Professionals: PR: Graduate standing or C.I. A study of healthcare issues and strategies encountered by speech-language pathologists and nurse practitioners when promoting transdisciplinary and collaborative interactions.			NUR 3165	HPA-NURS	3(3,0)	Critical Inquiry: PR: STA 2014C or 2023; NUR 3809 and RN status or NUR 3065. A study of approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research.				
NGR 5714	HPA-NURS	3(3,0)	NUR 3167	HPA-NURS	1(2,0)	Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the SON, NUR 3235; NUR 3235L; NUR 3198. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues.				
Clinical Teaching Strategies for Health Professional Education: PR: EDG 6236 or Teaching Strategies for Health Professionals, or C.I. In depth study of the development, implementation, and evaluation of clinical education programs for health profession students. May be repeated for credit.										
NGR 5715	HPA-NURS	3(3,0)								
Instructional Technology Resources for Health Professional Education: PR: EDG 6236, Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources.										
NGR 5720	HPA-NURS	3(3,0)								
Organizational Dynamics: PR: Baccalaureate Degree in Nursing. Analysis of theories and models of health care organizational systems. Emphasis on nursing administration roles.										
NGR 5744	HPA-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.										
NGR 5745	HPA-NURS	1(1,0)								
Professional Obligations and Activities of Advanced Practice Nursing: PR: NGR 5746 (Roles and Issues in Advanced Practice Nursing II). Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam.										
NGR 5746	HPA-NURS	1(1,0)								
Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Baccalaureate degree in Nursing. Examine legal, ethical and political										

NUR 3826H	HPA-NURS	3(3,0)	Bioethical and Legal Issues in Health Care - Honors: PR: Honors Program. Includes questions concerning human values, legal and ethical questions arising in health care delivery policy issues and professional practice among licensed health care professionals	threatening illness across lifespan: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing care of individuals and families experiencing acute, unstable, or life-threatening health problems.							
NUR 3936	HPA-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	NUR 4745L	HPA-NURS	4(0,4)	Clinical Practice in Caring for Clients with Acute Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute health care settings with clients experiencing acute, unstable, surgical, or life threatening health conditions. Graded S/U.	NUR 4934	HPA-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.
NUR 4047	HPA-NURS	3(3,0)	Health Care of Special Populations: Homeless: PR: Completion of junior level nursing courses or equivalent or C.I. Emphasis on socioeconomic, political, nursing, medical, and mental health practice and research related to care of the homeless.	NUR 4827	HPA-NURS	3(3,0)	Leadership and Management Principles: PR: NUR 3809 or NUR 4635, 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.	NUR 4935	HPA-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.
NUR 4084	HPA-NURS	3(3,0)	Transitional Concepts in Nursing II: PR: NUR 3809, NUR 3065, NUR 3165. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3809.	NUR 4828	HPA-NURS	2(0,2)	Professional Issues and Development: PR: NUR 4635C, RN status, or C.I. CR NUR 4945L, NUR 4827. Analysis of current issues relating to health care delivery and the baccalaureate graduate entering professional nursing practice	NUR 4941	HPA-NURS	3(0,9)	Selected Nursing Practicum: PR: NUR 4756C and 4758C. An opportunity for an in-depth clinical study in an area of special interest to the student.
NUR 4196	HPA-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.	NUR 4829	HPA-NURS	3(3,0)	Accelerated Transitioning into Professional Practice as a Leader: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4695, NUR 4636L. Application of leadership and management principles to the beginning role of the professional nurse.	NUR 4945L	HPA-NURS	4(0,4)	Directed Nursing Practice: PR: NUR 4635C, RN status, or C.I. CR: NUR 4827, NUR 4828. In-depth study of one area of clinical nursing practice. Graded S/U.
NUR 4286	HPA-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.	NUR 4835	HPA-NURS	2(2,0)	Role Transition: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Professional development and role transition of the baccalaureate graduate entering professional nursing practice.	NUR 4970H	HPA-NURS	3(3,0)	Thesis or Project Works-Honors: This course provides students with faculty mentoring through the process of writing and defending the Honors Thesis or Project.
NUR 4525	HPA-NURS	2(2,0)	Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness.	NUR 4836	HPA-NURS	3(1,2)	Professional Development Seminar in Nursing: PR: Acceptance to RN-MSN program track; Current Florida RN license; CR: NUR 3809. Exploration of the role of the professional nurse	OCE 3008	AS-BIOL	3(3,0)	Oceanography: PR: BSC 2010C, CHM 2045C, and CHM 2046. Biological, physical and chemical oceanography.
NUR 4525L	HPA-NURS	1(0,1)	Clinical Practice with Mentally Ill Clients: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute healthcare settings serving clients with a primary diagnosis of mental illness. Graded S/U.	NUR 4837	HPA-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	OSE 5041	ECS-EECS	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.
NUR 4635C	HPA-NURS	6(3,3)	Scientific Theories of Nursing VI: PR: NUR 4084 and admission to the Nursing Program. Theories and principles of public health nursing. Clinical applications in selected settings.	NUR 4838L	HPA-NURS	2(0,2)	Directed Practicum in Nursing Administration: CR: NGR 5720. Clinical practice in an area of nursing administration. Graded S/U.	OSE 5050	UCF-OPT	3(3,0)	Fundamentals and Applications of Photonics: PR: Graduate standing or C.I. Introduction to optics and photonics emphasizing the concepts governing applications of current interest for science and engineering senior and first-year graduate students and working scientists and engineers.
NUR 4636	HPA-NURS	3(3,0)	Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. Fall courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care.	NUR 4880	HPA-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.	OSE 5051L	ECS-EECS	3(1,4)	Electro-Optics Laboratory: PR: EEL 4440 or OSE 5041 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics.
NUR 4636L	HPA-NURS	2(0,2)	Clinical for Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Clinical application of theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Graded S/U.	NUR 4903H	HPA-NURS	3(3,0)	Directed Reading/Research-Honors: PR: Admission to major. The student will review and synthesize literature on a selected topic in preparation for the Honors Thesis or Project.	OSE 5111	UCF-OPT	3(3,0)	Optical Wave Propagation: PR: Graduate standing or C.I. Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams
NUR 4695	HPA-NURS	2(2,0)	Accelerated Community as a Continuum of Care: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4829, NUR 4636L. Focus on knowledge needed in a community oriented practice model to effect changes in health status and risk, and self care capacity of target population.	NUR 4905C	HPA-NURS	Variable	Nursing Independent Study: PR: NUR 4756C. An opportunity for in-depth study in an area of special interest to the student.	OSE 5115	AS-PHYS	3(3,0)	Interference and Diffraction: PR: Graduate standing or C.I. Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.
NUR 4745	HPA-NURS	4(4,0)	Nursing Care of Clients with Acute and Life-	NUR 4906	HPA-NURS	Variable	Independent Study: Directed Study.	OSE 5143	ECS-EECS	3(3,0)	Fiber Optics Communication: PR: EEL 3552C, EEL 3470. Use of Fiber Optics as a communication channel. Principles of Fiber optics. Mode theory, transmitters, modulators, sensors detectors and demodulators.

UCF Courses and Descriptions

tion, introduction to lasers and nonlinear optics.

OSE 5414 ECS-EECS 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.

OSE 5421 UCF-OPT 3(3,0)
Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optical waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components.

OSE 5511 AS-PHYS 3(3,0)
Laser Principles: PR: PHY 3101, MAP 2302, PHY 4424. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems.

OSE 5630C ECS-EECS 3(2,1)
Thin Film Optics: PR: PHY 4424 or EEL 4440 and OSE 5041 or OSE 5051C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems.

PAD 3000 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.

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.

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.

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.

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.

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.

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.

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, fundraising and grantsmanship, financial management and marketing.

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 organiza-

tions is discussed.

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.

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.

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.

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.

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.

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.

PAD 4331 HPA-PUB 3(3,0)
Land Use and Planning: PR: PAD 3000 or C.I. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl.

PAD 4334 HPA-PUB 3(3,0)
Urban Design: PR: PAD 3000 or C.I. Theories and concepts of the physical, cultural, social and financial factors associated with urban design.

PAD 4351 HPA-PUB 3(3,0)
Issues in Environmental Program Management: The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects.

PAD 4392 HPA-PUB 3(3,0)
Managing Public Emergencies: 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.

PAD 4393 HPA-PUB 3(3,0)
Emergency Management & Disaster Planning: PR: PAD 3003 or C.I. Emergency Management and Disaster Planning on events most likely to affect Florida including reviewing the four phases of Planning, mitigation, response, and preparedness.

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.

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.

PAD 4461 HPA-PUB 3(3,0)
Reengineering Government: PR: PAD 3003. Acquaint undergraduate students with the latest think-

ing on improving the effectiveness and efficiency of public organizations via reengineering.

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.

PAD 4712 HPA-PUB 3(3,0)
Information Systems for Public Managers and Planners: PR: PAD 3000 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.

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.

PAD 4803 HPA-PUB 3(3,0)
Issues in Urban Administration: To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context.

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.

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.

PAD 5142 HPA-PUB 3(3,0)
Nonprofit Organizations: PR: Admission to certificate program or C.I. Overview of nonprofit management, including history, governance structures, criteria used to establish nonprofit status, range of organizations, and application of management theory.

PAD 5145 HPA-PUB 3(3,0)
Volunteerism in Nonprofit Management: PR: Admission to certificate program or C.I. Human resource development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues

PAD 5146 HPA-PUB 3(3,0)
Nonprofit Resource Development: PR: Post-bac status or C.I. Examines human resource development and financial resource development in nonprofit organizations including management issues.

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.

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.

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.

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.

PAD 5425	HPA-PUB	3(3,0)	immune reactions, antigen antibody interactions, cell mediated immunity, tumor immunology, and immuno therapy.
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.			
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.			
PAD 5806	HPA-PUB	3(3,0)	
Local Government Operations: Operational Functions of municipal and county governments and the role of the chief executive officer.			
PAD 5807	HPA-PUB	3(3,0)	
Administrative Practice in the Public Sector: The application of various theoretical concepts to the "real world" of public administration. Policy formulation and execution are examined through the case study mode.			
PAD 5850	HPA-PUB	3(3,0)	
Grant and Contract Management: PR: PAD 3003 or C.I. Study of government or public nonprofit agency grant and contract administration and management responding to funding assistance solicitations and grant and contract preparation, evaluation, and presentation.			
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. Graded S/U.			
PAF 4948	HPA-PUB	3(0,3)	
American Humanics Internship: PR: Enrollment in America Humanics Certification Program, completion of 2 AH restricted course electives and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanics certification program. Requires minimum of 300 hours placement in nonprofit human services organization.			
PCB 2420	HPA-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.			
PCB 3023	AS-BIOL	3(3,0)	
Molecular Cell Biology: PR: BSC 2010C and CHM 2210, or C.I. Molecular structure and function of eukaryotic organelles. Transcription: RNA processing translation and post translation targeting and modification of gene products.			
PCB 3034	AS-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.			
PCB 3034L	AS-BIOL	1(0,3)	
Principles of Ecology Laboratory: CR: PCB 3034 or C.I. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology.			
PCB 3063	AS-BIOL	3(3,0)	
Genetics: PR: BSC 2010C, and CHM 2046, or C.I. Basic principles of heredity as applied to prokaryotes and eukaryotes.			
PCB 3063L	AS-BIOL	1(0,3)	
Genetics Laboratory: CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics.			
PCB 3233	HPA-M&M	3(3,0)	
Immunology: PR: BSC 2010C. Basic principles of			
PCB 3233L	HPA-M&M	1(0,3)	
Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology.			
PCB 3301C	AS-BIOL	4(3,4)	
Aquatic Biology: PR: BSC 2010C and BSC 2011C, or C.I. Plant and animal components of freshwater environments.			
PCB 3314	AS-BIOL	3(3,0)	
Marine Bio Diversity: PR: BSC 2010C, CHM 2045C, and CHM 2046. The diversity of life in our oceans.			
PCB 3442	AS-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.			
PCB 3523	HPA-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.			
PCB 3703C	HPA-M&M	4(3,3)	
Human Physiology: PR: BSC 2010C, CHM 2046 or equivalent. The physiology and interrelationships of organ systems of the human body.			
PCB 4234	HPA-M&M	3(3,0)	
Cellular Immunology: PR: PCB 3233. An undergraduate course covering specialized topics in cellular immunology.			
PCB 4302C	AS-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.			
PCB 4303C	AS-BIOL	4(3,4)	
Biological Limnology: PR: BSC 2010C and BSC 2011C, or C.I. Biological communities in freshwater lakes and streams.			
PCB 4524	HPA-M&M	3(3,0)	
Molecular Biology II: PR: PCB 3523. The processes regulating gene function in prokaryotes and eucaryotes; specialized genetic aspects underlying multi-cellular existence, DNA evolution.			
PCB 4524H	HPA-M&M	3(3,0)	
Molecular Biology II-Honors: PR: PCB 3523. Same as PCB 4525 with honors level content			
PCB 4529	HPA-M&M	3(3,0)	
Experimental Molecular Biology: PR: PCB 3523 and PCB 4524 or C.I. Facilitation of experimental data that leads to the development and understanding of the underlying principles of molecular biology.			
PCB 4683	AS-BIOL	4(4,0)	
Population Biology and Evolution: PR: PCB 3034 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals.			
PCB 4683L	AS-BIOL	1(0,2)	
Population Biology and Evolution Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology.			
PCB 4723	AS-BIOL	4(4,0)	
Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology.			
PCB 4805	HPA-M&M	3(3,0)	
Endocrinology: PR: PCB 3703C or equivalent; CHM 3211. Mechanisms of action of hormones; interrela-			
			tionship between the nervous and endocrine systems.
PCB 5045C	AS-BIOL	4(3,2)	
Conservation Biology: PR: PCB 3034 and PCB 3063. Scientific basis of conservation: conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required.			
PCB 5107C	AS-BIOL	4(3,2)	
Advanced Cell Biology: PR: PCB 3063 and PCB 3023 or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signalling and cell cycle.			
PCB 5238	HPA-M&M	3(3,0)	
Immunopathology: PR: PCB 3233. In-depth overview of diseases due to deficiencies or over-reactivity of the immune system.			
PCB 5239	HPA-M&M	3(3,0)	
Tumor Biology: PR: PCB 4524. A course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology.			
PCB 5256C	AS-BIOL	4(3,2)	
Advanced Developmental Biology: PR: PCB 3063 and ZOO 4603C or equivalent. Lecture and literature review of emerging areas in plant and animal developmental biology			
PCB 5275	HPA-M&M	3(3,0)	
Signal Transduction Mechanics: PR: PCB 3523 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.			
PCB 5326C	AS-BIOL	5(3,2)	
Ecosystems of Florida: PR: PCB 3034, PCB 3034L or equivalent. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation.			
PCB 5328C	AS-BIOL	4(2,4)	
Landscape Ecology: PR: PCB 3034, STA 2023 or C.I. Influence of spatial heterogeneity on ecological processes. Emphasizes quantitative methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics.			
PCB 5435C	AS-BIOL	4(2,6)	
Marine Ecology of Florida: PR: BSC 4312C or graduate status. Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature.			
PCB 5485	AS-BIOL	3(3,0)	
Models in Ecology: PR: PCB 3034, MAC 2311 (or equivalent). A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature.			
PCB 5520	AS-BIOL	3(3,0)	
Behavioral Ecology: PR: C.I. Introduction to the field of Behavioral Ecology, which studies evolution of animal behavior in the wild.			
PCB 5556C	AS-BIOL	4(3,2)	
Conservation Genetics: PR: PCB 3063 and PCB 4683. Applications of genetic models to the understanding and conservation of animal and plant populations.			
PCB 5665C	AS-BIOL	4(3,2)	
Human Genetics: PR: PCB 3063, graduate standing or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species.			
PCB 5677	AS-BIOL	3(3,0)	
Molecular Evolution: PR: PCB 3063 and PCB			

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4683C. Provides an overview of molecular methods currently used to analyze diversity within and among species.

PCO 4203 AS-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.

PEL 2011 ED-TLP 2(2,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEL 2111 ED-TLP 2(1,1)
Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals.

PEL 2112 ED-HSW 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.

PEL 2121 ED-TLP 2(1,1)
Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2122 ED-TLP 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.

PEL 2341 ED-TLP 2(2,1)
Beginning Tennis: Performance and application of basic skills, rules and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2342 ED-TLP 2(2,1)
Advanced Tennis: PR: PEL 2341 or equivalent competency. A study of performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2640 ED-TLP 2(2,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEM 2101 ED-TLP 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.

PEM 2104 ED-TLP 2(2,1)
Personal Fitness: Study of personal fitness concepts, with opportunities to develop individual optimal level of fitness and an improved lifestyle through high-level wellness.

PEM 2131 ED-TLP 2(1,1)
Strength Resistance Training: Study of fitness and strength development through resistance exercise.

PEM 2171 ED-TLP 2(1,1)
Aerobics: Appropriate rhythmical muscle toning movements that develop aerobic fitness: concepts taught include warm-up, flexibility, stretching, cool down, and heart rate.

PEM 2173 ED-TLP 2(1,1)
Step Aerobics: Appropriate rhythmical muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down.

PEM 2175 ED-TLP 2(1,2)
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.

PEM 2405 ED-TLP 3(1,2)
Self Defense for Women and Men: Designed to provide students with self defense skills.

PEM 2443 ED-TLP 2(1,2)
Tae Kwon Do: An analysis and application of the martial arts, as part of an overall physical and mental training system.

PEM 5408 ED-TLP 3(3,0)
Controlling Classroom Violence: PR: Post baccalaureate or graduate status; certified teacher; or C.I. A hands-on course dealing with controlling disruption and violence as well as how teachers can protect themselves.

PEN 1121 ED-TLP 2(2,1)
Elementary Swimming: For non-swimmers and beginning swimmers. Development and study of technique in the basic skills of water safety and swimming.

PEO 2011 ED-TLP 3(2,1)
Team Sports: PR: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate team sports as part of the Physical Education program.

PEO 2031 ED-TLP 3(2,1)
Individual Sports and Leisure Activities: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate individual sports and leisure activities in physical education program.

PEO 2624 ED-TLP 3(2,1)
Coaching Basketball: Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies.

PEO 3041 ED-TLP 2(1,1)
Games for the Elementary School Physical Education Program: The understanding, designing, and teaching of low-organizational game-activities for the elementary school child.

PEO 3324 ED-TLP 3(2,1)
Coaching Volleyball: Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies.

PEO 3644 ED-TLP 3(2,1)
Coaching Football: Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies.

PEO 5645 ED-TLP 3(3,0)
Coaching Football: PR: C.I. Advanced principles and methods common to the coaching of football. Includes teaching and training methods, organization, motivation and strategies.

PEP 3205 ED-TLP 3(2,1)
Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics.

PET 2622C ED-TLP 3(2,1)
Human Injuries: PR: Biomechanics or C.I. The prevention, identification, care, and rehabilitation of human injuries.

PET 3137 ED-TLP 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.

PET 3214 AS-PSYCH 3(3,0)
Sports Psychology: A review of principles of psychology related to the enhancement of satisfaction and performance in sports.

PET 3361 ED-TLP 3(3,0)
Nutrition for Sports and Fitness: PR: ZOO 3736C or C.I. Study of nutrition with focus on the strategies

designed to meet nutrient demands for physical activity, exercise, and athletic performance in sports and fitness.

PET 3408 ED-TLP 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.

PET 3462 ED-TLP 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.

PET 3493 ED-TLP 3(3,0)
Sports and Ethics: PR: Junior standing or C.I. An exploration into ethics and its influence on sports.

PET 3620C HPA-HP 3(2,2)
Principles of Athletic Training: PR: PHY 2054C, PCB 3703C, ZOO 3733C, CHM 2046 & Lab, and C.I. Basic athletic training, including first aid, injury recognition, taping techniques and preventive measures

PET 3623C HPA-HP 3(2,2)
Art and Science of Athletic Training I: PR: PET 3620C. Evaluation skills required to perform athletic injury assessment

PET 3670C HPA-HP 4(0,8)
Practicum in Athletic Training I: PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer.

PET 3671C HPA-HP 4(0,8)
Practicum in Athletic Training II: PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer.

PET 3740C ED-TLP 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.

PET 3765 ED-TLP 3(3,0)
Coaching Theory: PR: Admitted to COE or CI. Theories of coaching team and individual sports

PET 3776 ED-TLP 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.

PET 4002 ED-TLP 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.

PET 4050C ED-TLP 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.

PET 4083C ED-TLP 4(3,1)
Practical Fitness training: PR: PET 4312, PET 4351, PET 2622C, PET 4550, PEM 2171. An in-depth study into fitness-related concepts as they are applied to individuals and groups.

PET 4215 ED-TLP 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

PET 4312	ED-TLP	3(2,1)			
Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement.					
PET 4315C	HPA-HP	3(2,2)			
Biomechanics of Sport: PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries					
PET 4351	ED-CFCS	3(2,1)			
Applied Exercise and Human Physiology: An in-depth study of metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport.					
PET 4401	ED-TLP	3(3,0)			
Administration and Evaluation in Physical Education: This course is designed to address administrative, measurement and evaluation considerations of physical education programs.					
PET 4491	ED-TLP	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.					
PET 4550	ED-TLP	3(2,1)			
Fitness Assessment and Exercise Physiology: A study and acquisition of health related fitness, exercise strategies and related assessment techniques.					
PET 4603	HPA-HP	3(3,0)			
Introduction to Sports Medicine: A comprehensive study of care of sports injuries, including instruction in attitudes, health and conditioning in sports participants.					
PET 4604	HPA-HP	3(3,0)			
Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries.					
PET 4606	HPA-HP	3(3,0)			
Applied Fitness in Sport: PR: PET 3671. Appreciation and clinical application of fitness regarding athletics					
PET 4624C	HPA-HP	3(2,2)			
Art and Science of Athletic Training II: PR: PET 3623C. Specific diagnostic and sport specific injuries in athletics					
PET 4625	ED-TLP	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.					
PET 4630C	HPA-HP	4(2,4)			
Therapeutic Exercise in Athletic Training: PR: PET 3623C. Rehabilitation processes regarding exercise progression for athletic injury					
PET 4632C	HPA-HP	4(2,4)			
Therapeutic Modalities in Athletic Training: PR: PET 4624C. Principles and techniques for applying therapeutic modalities					
PET 4640	ED-TLP	3(3,0)			
Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed.					
PET 4660C	HPA-HP	3(3,0)			
Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession.					
PET 4672C	HPA-HP	4(0,8)			
Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.					
PET 4673C	HPA-HP	4(0,8)			
Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.					
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.					
PET 4710	ED-E PE	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.					
PET 4724	ED-TLP	3(3,0)			
Development and History of Physical Education Curriculum: A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs.					
PET 4763	ED-HSW	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.					
PET 4823	ED-HSW	3(3,0)			
Teaching Sports Skills: PR: PEO 2011, PEO 2031. Development of the skill, proficiency and knowledge in the planning, implementation and evaluation of team and individual sports.					
PET 4925	ED-TLP	3-6 (0,16)			
Sports and Fitness Practicum I: PR: Overall GPA of 2.5 and completion of 2/3 of the Sports and Fitness program requirements. Field experience in a sports and fitness related organization.					
PET 4926	ED-TLP	9-12(0,35)			
Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business.					
PET 4943	ED-TLP	12(0,35)			
Internship II: PR: Must have completed course work in specialization. Satisfactory completion of the portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded S/U.					
PET 5355	ED-TLP	3(3,0)			
Exercise and Health: PR: Admission to Master's Program or Certificate Program. Will provide educators an in-depth understanding of energy pathways, and neuromuscular, cardiovascular, and respiratory systems during exercise. Emphasis on understanding principles of exercise adaptations and applying those principles to fitness/wellness settings.					
PET 5405	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.					
PET 5465	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.					
PET 5466	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.					
PET 5635	ED-TLP	3(3,0)			
Advanced Human Injuries: PR: PET 2622C or C.I. The application of medical knowledge to sport with the emphasis on preserving the health of an athlete before, during and after performance.					
PET 5766	ED-TLP	3(3,0)			
Advanced Coaching Theory: PR: C.I. Advanced study of theories and methods of coaching for optimum sports performance.					
PGY 2401C	AS-ART	3(3,2)			
Beginning Photography: PR: ART 2201C, ART 2300C or C.I. Introduction to photography with an art emphasis.					
PGY 3410C	AS-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.					
PGY 3610C	AS-COMM	3(1,4)			
Photojournalism I: PR: Junior standing or C.I. Visual communication, history, picture appreciation, layout and design, picture story development, basic camera operation, and ethics. 35 mm SLR camera required.					
PGY 3640C	AS-COMM	3(1,2)			
Photojournalism II: PR: PGY 3610C. The Picture Story. Individual and group projects for extended documentary coverage.					
PGY 3680	AS-COMM	3(3,0)			
Photojournalism III: PR: PGY 3610C. Photography Editing. Assignment selection, picture and copy editing, cropping, picture desk management, and ethics of photojournalism, and the new technological advances.					
PGY 4420C	AS-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. Advanced photography skills and portfolio development. Designed for art majors. May be repeated for credit.					
PGY 4440C	AS-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. Designed for upper division art majors with photography concentration. A series of directed photographic problems of a research nature.					
PHH 3041	AS-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.					
PHH 3100	AS-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.					
PHH 3200	AS-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.					
PHH 3460	AS-PHIL	3(3,0)			
Modern Western Philosophy: PR: PHI 2010. Major western philosophers and philosophical movements from Descartes to Nietzsche.					
PHH 3510	AS-PHIL	3(3,0)			
Marx and Nietzsche: PR: Junior standing. The philosophies of Marx and Nietzsche, important differ-					

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ences 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

PHH 3600 AS-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.

PHH 3700 AS-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.

PHI 2010 AS-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.

PHI 2010H AS-PHIL 3(3,0)
Honors Introduction to Philosophy: Same as PHI 2010 with honors-level content.

PHI 2011 AS-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.

PHI 2100 AS-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.

PHI 2101 AS-PHIL 3(3,0)
Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action.

PHI 2630 AS-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.

PHI 2647 AS-PHIL 3(3,0)
Logic and Ethics: PR: PHI 2100 or COT 3100 or MHF 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics.

PHI 3022 AS-PHIL 3(3,0)
Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2010, PHM 3123, or C.I. Examines the contributions of poststructuralist and neopschoanalytical theories to cultural issues in sexuality and gender.

PHI 3033 AS-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.

PHI 3320 AS-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.

PHI 3451 AS-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.

PHI 3601 AS-PHIL 1(1,0)
Practical Wisdom: A radio course in applied ethics which focuses on the human good, dealing with the relationship between means and ends and how they

define one another.

PHI 3625 AS-PHIL 3(3,0)
Virtual Ethics: PR: COP 3502C or IDS 2680 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.

PHI 3626 AS-PHIL 3(3,0)
Advanced Ethics in Science and Technology: PR: COP 3502C or IDS 2680 or PHI 2647. Critical thinking applied to ethics in science and technology.

PHI 3638 AS-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.

PHI 3640 AS-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

PHI 3648 AS-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.

PHI 3670 AS-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.

PHI 3683 AS-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.

PHI 3700 AS-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.

PHI 3720 AS-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.

PHI 3750 AS-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.

PHI 3800 AS-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.

PHI 3803 AS-PHIL 3(3,0)
Philosophy and Creativity: A companion course to PHI 3800, Aesthetics. Examines the empirical and metaphysical claims made for creativity; attempts to account for intuition, genius, and intelligence.

PHI 3941 AS-PHIL 3(1,3)
Philosophy Practicum: PR: C.I. Mentor at-risk grade schoolers three hours weekly and participate in a two-hour class every other week, evaluating such work-related concepts as justice and fairness. Pass/Fail grading.

PHI 4300 AS-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 justifica-

tion for belief.

PHI 4321 AS-PHIL 3(3,0)
Philosophies of Embodiment: Mind/Body/Self: PR: Junior standing and either PHI 2010, PHI 2011, PHI 2101, 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.

PHI 4341 AS-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.

PHI 4400 AS-PHIL 3(3,0)
Philosophy of Science: An examination of the conceptual foundations and methodology of modern science.

PHI 4420 AS-PHIL 3(3,0)
Philosophy of Social Science: An examination of the objectives, methods and guiding norms of the social sciences and their role in the development of human knowledge.

PHI 4500 AS-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.

PHI 4633 AS-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.

PHI 4804 AS-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.

PHI 4931 AS-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.

PHI 4951 AS-PHIL 1(1,0)
Portfolio: PR: PHI 3XXX (Research Methods in Philosophy) 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.

PHI 5627 AS-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.

PHI 5665 AS-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.

PHM 3100 AS-PHIL 3(3,0)
Freedom and Justice: Philosophical analysis and evaluation of selected issues arising from the interaction of the individual, society, and the state; includes topics such as freedom, equality, and justice.

PHM 3123 AS-PHIL 3(3,0)
Feminist Theories: PR: ENC 1102. Contemporary issues and perspectives in feminist theory and their relation to divergent feminist practices.

PHM 3400 AS-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.	sues. Coordinated with cadaver dissection.	PHT 4230L HPA-HP 1(0,2) Therapeutic Exercise II Lab: CR: PHT 4230. Lab course emphasizing use of various therapeutic exercise modalities.
PHM 4031 AS-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.	PHT 3122L HPA-HP 3(3,0) Clinical Kinesiology Lab: CR: PHT 3122C. Lab course investigating the mechanical aspects of human movement.	PHT 4234 HPA-HP 2(2,0) Neurological Physical Therapy: PR: PHT 3069; PHT 3069L. CR: PHT 4234L. Analysis of selected neuromotor theories and their clinical applications. Examinations and interventions for the evaluation and treatment of neurological patients presented.
PHM 5035 AS-PHIL 3(3,0) Environmental Philosophy: PR: PHI 3640, PHI 2630 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.	PHT 3155 HPA-HP 2(2,0) Physiology of Therapeutic Exercise: PR: PHT 3259C. CR: PHT 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems.	PHT 4234L HPA-HP 2(0,2) Neurological Physical Therapy Lab: CR: PHT 4234. Lab course emphasizing the clinical application of selected neuromotor theories.
PHP 3783 AS-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.	PHT 3155L HPA-HP 2(0,4) Physiology of Therapeutic Exercise Lab: CR: PHT 3155. Lab course emphasizing the clinical application of exercise physiology.	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.
PHP 3786 AS-PHIL 3(3,0) Existentialism: Study of existentialist analysis and criticism of the human situation as found in the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus.	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.	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.
PHT 3002 HPA-HP 2(2,0) Foundations of Physical Therapy I: PR: PHT 3259; PHT 3259L. An introduction to the profession of physical therapy. Patient-practitioner interaction and documentation skills addressed. Appreciation of the total health care team approach to modern medicine; utilization of professional ethics and values are presented.	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.	PHT 4311C HPA-HP 2(1,2) Clinical Neurology in Physical Therapy: Analysis of selected neuromotor theories and their clinical applications. Advanced evaluation and treatment procedures. The use of research to determine optimum regimen in treating neurological patients.
PHT 3011 HPA-HP 3(3,0) Physical Therapy as a Career: PR: ENC 1102. The science and art of physical therapy, with emphasis on the role and function of physical therapists.	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.	PHT 4316 HPA-HP 2(2,0) Orthopedic Physical Therapy: PR: PHT 3069; PHT 3069L. CR: PHT 3316L. Examination and interventions for the evaluation and treatment of specific orthopedic cases and injuries are presented. Injury recognition, signs and symptoms or orthopedic involvement, and documentation are highlighted.
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.	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.	PHT 4316L HPA-HP 2(0,4) Orthopedic Physical Therapy Lab: CR: PHT 4316. Lab course emphasizing the examinations and interventions for the evaluation and treatment of specific orthopedic cases and injuries.
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.	PHT 4215 HPA-HP 3(3,0) Theories and Procedures I: PR: Enrollment in sequence in the Physical Therapy program. CR: PHT 4215L. Theories of physical agents heat, light, cold, water, sound, and massage: problem solving rationale and selection of interventions for inflammation, pain, edema, spasm & weakness.	PHT 4320C HPA-HP 2(2,1) Pediatric Physical Therapy: PR: PHT 3259; PHT 3259L. CR: PHT 4320CL. The psychosocial, gross morphological and neurodevelopmental sequences that provide the baseline for pediatric clinical evaluation and treatment of individuals from birth to twenty one years of age and introduction to evaluation and treatment of pediatric clients.
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.	PHT 4215L HPA-HP 1(0,2) Theories and Procedures I Lab: CR: PHT 3214. Lab course on the clinical application of heat, light, cold, water, sound, and massage.	PHT 4372C HPA-HP 2(2,1) Gerontology in Physical Therapy Practice: PR: PHT 4320C; PHT 4143L. Normal aging processes and the health status of older people. Examinations and interventions used in the older population, implications of altered health states, drug use, referral sources, plus legal/ethical considerations. Emphasis on clinical decision-making.
PHT 3112L HPA-HP 3(0,6) Gross Anatomy/Neuroscience I Lab: CR: PHT 3112C. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities.	PHT 4216 HPA-HP 2(2,0) Theories and Procedures II: PR: PHT 4215, PHT 4215L CR: PHT 4216L. Continuation of Theories and Procedures I. Focus on electrodiagnosis and electrophysiologic examinations and the interventions used in the treatment of pain and dysfunction.	PHT 4380C HPA-HP 2(2,1) Cardiopulmonary Physical Therapy: Examinations and interventions for the management of chronic and acute cardiopulmonary problems. Teaching patient strategies for preventing/managing dysfunction.
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.	PHT 4216L HPA-HP 1(0,2) Theories and Procedures II Lab: CR: PHT 4216. Lab course focusing on electrodiagnosis and electrophysiologic examinations, and the interventions used in the treatment of pain and dysfunction.	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.
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.	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.	PHT 4707C HPA-HP 2(2,1) Functional Rehabilitation: PR: Full time enrollment in PT program. Functional management of patients
PHT 3122 HPA-HP 3(3,0) Clinical Kinesiology: CR: PHT 3120L. Mechanical aspects of human movement, including joint mechanics of the upper and lower extremity, the vertebral column, and tissue mechanics of relevant human tis-	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.	
	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.	

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seen in long term rehabilitation setting. Develop and implement a PT plan of care for patients.

PHT 4821L HPA-HP 2(0,6)
Clinical Education I: PR: Enrollment in Physical Therapy program. Full time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed.

PHT 4822 HPA-HP 2(0,16)
Clinical Education II: Six weeks of supervised clinical education in a general hospital setting. All previous education objectives apply and are accumulative. Graded S/U.

PHT 4823 HPA-HP 1(0,8)
Clinical Education III: Clinical practicum in a long-term care setting. Emphasis on gerontology. Supervised by a licensed physical therapist, the student will integrate and apply all previous course work. Graded S/U.

PHT 4832 HPA-HP 1(0,8)
Clinical Education IV: PR: PHT 4320C, PHT 4372C. Full-time clinical internship under the supervision of a physical therapist, the student practices and integrates evaluation skills and treatment knowledge from previous courses. Graded S/U.

PHT 5003 HPA-HP 2(2,0)
Foundations of Physical Therapy I: PR: Admission to the PT program. Introduction to the profession of physical therapy.

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.

PHT 5115 HPA-HP 2(2,0)
Gross Anatomy/Neuroscience I: PR: Admission to PT program. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper and lower extremities. Regional cadaver dissection.

PHT 5115L HPA-HP 2(0,4)
Gross Anatomy/Neuroscience I Lab: PR: Admission to PT program. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities.

PHT 5118 HPA-HP 2(2,0)
Gross Anatomy/Neuroscience II: PR: PR Gross Anatomy/Neuroscience I and Lab; CR Gross Anatomy/Neuroscience II Lab. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs.

PHT 5118L HPA-HP 2(0,4)
Gross Anatomy/Neuroscience II Lab: PR: Gross Anatomy Neuroscience I and Lab; CR Gross Anatomy Neuroscience II. Directed Laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning.

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.

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.

PHT 5156 HPA-HP 2(2,0)
Physiology of Therapeutic Exercise: PR: Admission to PT program. Exercise physiology investigates the physiological responses and adaptations to human

movement including cardiovascular and pulmonary.

PHT 5156L HPA-HP 2(0,4)
Physiology of Therapeutic Exercise Lab: CR: PHT 5156. Lab course emphasizing the clinical application of exercise physiology.

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.

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.

PHT 5240 HPA-HP 1(1,0)
Physical Assessment Lab: PR: Physical Assessment Lab. Extensive theory and practice in the examination of the patient. Incorporate a systems approach, utilizing screening, and patient problem solving.

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.

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.

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.

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.

PHT 5260L HPA-HP 1(0,2)
Patient Care Skills Lab: CR: Patient Care Skills. Skills of patient care, transfers, mobility skills.

PHT 5306 HPA-HP 2(2,0)
Pathology/Pharmacology: PR: Admission to PT program. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they related to medical management in physical therapy practice.

PHT 5411 HPA-HP 3(3,0)
Foundations of Physical Therapy II: PR: PHT 3002C. This course emphasized the psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching.

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.

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.

PHT 5722C HPA-HP 2(2,1)
Physical Therapy Integration I: PR: Admission to PT program. Problem solving approach to selected dysfunctions, including burns and open wounds, and selected diagnostic procedures and therapy interven-

tions.

PHT 5805 HPA-HP 1(0,4)
Clinical Education I: PR: Admission to PT program. Full-time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed.

PHY 2014C AS-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.

PHY 2048 AS-PHYS 3(3,0)
Physics for Engineers & Scientists I: PR: MAC 2311 or equivalent. Mechanics, Thermodynamics, fluids

PHY 2048H AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists I: PR: MAC 2311 or equivalent. Same as PHY 2048 with honors-level content.

PHY 2048L AS-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.

PHY 2048LH AS-PHYS 1(0,3)
Honors Physics Laboratory for Engineers and Scientists I: PR: MAC 2311 or equivalent. Same as PHY 2048L with honors-level content.

PHY 2049 AS-PHYS 3(3,0)
Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics.

PHY 2049H AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists II: PR: PHY 2048H, MAC 2312. Same as PHY 2049 with honors-level content.

PHY 2049L AS-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.

PHY 2053C AS-PHYS 4(3,3)
College Physics I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. Mechanics, waves, thermodynamics.

PHY 2054C AS-PHYS 4(3,3)
College Physics II: PR: PHY 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity.

PHY 2093 AS-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 for credit.

PHY 3101 AS-PHYS 3(3,0)
Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics.

PHY 3110H AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists III: PR: PHY 2049 or PHY 2049H. Same as PHY 3101 with honors-level content.

PHY 3221 AS-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.

PHY 3323 AS-PHYS 3(3,0)
Electricity and Magnetism I: PR: PHY 2049, MAP 2302. Electrostatics, magnetostatics, Lorentz force current electricity, Maxwell's equations.

PHY 3503 AS-PHYS 3(3,0)
Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory,

elements of statistical mechanics.

PHY 3722C AS-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.

PHY 3752C AS-PHYS 3(1,5)

Physics of Scientific Instruments: PR: PHY 3101 or C.I. Applications, functions and operation of electronic instruments.

PHY 3802L AS-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.

PHY 4324 AS-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.

PHY 4424 AS-PHYS 3(3,0)

Optics: PR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography.

PHY 4424L AS-PHYS 3(0,3)

Optical Physics Laboratory: A laboratory course on geometric optics, interference, diffraction, materials and modern optics.

PHY 4445 AS-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.

PHY 4604 AS-PHYS 3(3,0)

Wave Mechanics I: PR: PHZ 3113. Postulates of Quantum Mechanics. Operators and Observables, Schroedinger equation with simple applications.

PHY 4605 AS-PHYS 3(3,0)

Wave Mechanics II: PR: PHY 4604. Further applications of quantum mechanics, perturbation theory, scattering theory, identical particles.

PHY 4803L AS-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.

PHY 4942C AS-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.

PHY 5015C AS-PHYS 3(2,2)

Physics for Teachers II: PR: C.I. "Hands-on" lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation.

PHY 5100 AS-PHYS 1(1,0)

Topics in Contemporary Physics for Teachers: PR: 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.

PHY 5140C AS-PHYS 3(3,2)

Ion-Solid Interactions: PR: PHY 4604 or PHY 4324. Physical principals and related scientific and technological applications of ion-solid interactions.

PHY 5200C AS-PHYS 1(0.5,1.5)

Newtonian Mechanics for Teachers: PR: C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics.

PHY 5300C AS-PHYS 1(0.5,1.5)

Electricity for Teachers: PR: C.I. Circuits, multimeters, oscilloscopes, circuit elements.

PHY 5302C AS-PHYS 1(0.5,1.5)

Electromagnetism for Teachers: PR: C.I. Gauss' Law, Biot-Savart Law, Ampere's Law, Faraday's Law, Lenz's law, motors, generators, AC circuits and Maxwell's Equations.

PHY 5346 AS-PHYS 3(3,0)

Electrodynamics I: PR: PHY 4324 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.

PHY 5401C AS-PHYS 1(0.5,1.5)

Optics for Teachers: PR: C.I. Geometrical and physical optics, spectrometers and lasers.

PHY 5455 AS-PHYS 3(3,0)

Modern X-Ray Science: 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.

PHY 5465C AS-PHYS 1(0.5,1.5)

Wave Motion for Teachers: PR: C.I. Water waves, waves on strings, sound and vibrations.

PHY 5500C AS-PHYS 1(0.5,1.5)

Thermal Physics for Teachers: PR: C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather.

PHY 5524 AS-PHYS 3(3,0)

Statistical Physics: PR: PHY 3503, STA 3032, 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.

PHY 5601 AS-PHYS 1(1,0)

Quantum Physics for Teachers: PR: C.I. Hydrogen atom, diatomic molecules, heat capacity transition rates.

PHY 5606 AS-PHYS 3(3,0)

Quantum Mechanics I: PR: PHY 4605 or C.I. Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schroedinger equation, matrix formulation, and time independent perturbation theory.

PHY 5846C AS-PHYS 3(3,3)

Methods of Experimental Physics: PR: Graduate standing or C.I. Introduction to methods of experimental physics, including instrumental design, data acquisition, vacuum, cryogenics, sample preparation, nuclear physics, transport, and spectroscopy.

PHY 5933 AS-PHYS 3(3,0)

Selected topics in biophysics of macromolecules: PR: PHY 3101, CHM 2046, 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.

PHZ 3113 AS-PHYS 3(3,0)

Introduction to Theoretical Methods of Physics: PR: MAP 2302. Analytical techniques to solve problems of physics.

PHZ 3151 AS-PHYS 3(3,0)

Computer Methods in Physics: PR: PHY 3101. Non-analytical problems in physics and astronomy solved by approximation with computer assistance.

PHZ 5304 AS-PHYS 3(3,0)

Nuclear and Particle Physics: PR: PHY 4604 or equivalent. Particles and nuclei, symmetries and conservation laws, interactions, models.

PHZ 5405 AS-PHYS 3(3,0)

Condensed Matter Physics: PR: PHY 4604, PHY 3101, or C.I. Crystal lattice cell structure, phonons, free electron model, band theory of solids, Fermi surface, solid state applications, and polymers.

PHZ 5425C AS-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.

PHZ 5505 AS-PHYS 3(3,0)

Plasma Physics: PR: PHY 4324 or C.I. Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion.

PHZ 5600 AS-PHYS 1(1,0)

Special Relativity for Teachers: PR: C.I. Length contraction, time dilation, simultaneity, conservation of mass-energy, conservation of momentum, Compton scattering.

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.

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.

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.

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.

PLA 3201H HPA-CJ/LS 3(3,0)

Civil practice and Procedure - Honors: PR: PLA 3013 or C.I. Same as PLA 3201 with honors level content.

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.

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.

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.

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.

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.

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

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must handle trial from beginning to end. May be repeated for credit.

PLA 4263 HPA-CJ/LS 3(3,0)
Evidence: PR: PLA 3013 and 3203 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.

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.

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.

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.

PLA 4472 HPA-PUB 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.

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.

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

PLA 4583 HPA-CJ/LS 3(3,0)
Cyber Law I: PR: PLA 3013. Analysis of copyright, trademark, and patent issues in cyberspace.

PLA 4601 HPA-CJ/LS 3(3,0)
Estates and Trusts: PR: PLA 3013, PLA 3504. A study of wills and trusts, and applicable legal principles of administration of estates through the processes of the Probate Court.

PLA 4602 HPA-CJ/LS 3(3,0)
Estate Administration: PR: PLA 4601. Study of the laws and procedures applicable to administration of estates.

PLA 4631 HPA-CJ/LS 3(3,0)
Land Use and Environmental Law: PR: PLA 3013, PLA 3504. Study of the law relating to private and public restraints on land use, including planning, zoning, subdivision and building regulations, with emphasis on recent interpretations by judiciary for environmental protection.

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.

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.

PLA 4732 HPA-CJ/LS 3(3,0)
Advanced Legal Applications Computer Software: PR: PLA 3013 or CI. Course will acquaint students

with contemporary computer software applications used to satisfy the demands of today's law firms and law-related fields.

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.

PLA 4800 HPA-CJ/LS 3(3,0)
Domestic Relations Law: PR: PLA 3013, PLA 3504. Role of the legal assistant in all phases of family and juvenile law. Fundamental procedures and principles applied by the courts to family problems.

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.

PLA 4823 HPA-CJ/LS 3(3,0)
Sports Law: PR: PLA 3010 or C.I. Introduction to the legal issues and regulation of sports, focusing on torts, contracts, agency and constitutional law as applied to athletes.

PLA 4824 HPA-CJ/LS 3(3,0)
Legal Issues for Athletic Trainers: PR: CI. Analysis of the legal issues affecting athletic trainers

PLA 4825 HPA-CJ/LS 3(3,0)
Entertainment Law: PR: PLA 3013 or CI. Introduction to the control and regulation of the entertainment industry and the associated legal issues.

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.

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.

PLA 4910 HPA-CJ/LS 3(4,0)
Trial Advocacy: PR: PLA 3013 or CI. Analysis of the entire litigation process from the initial client interview through the appellate stage, and development of oral advocacy skills.

PLA 4935 HPA-CJ/LS 3(3,0)
Capstone: Legal Issues: PR: senior status, Legal Studies major. The legal and socio-legal analysis of selected issues that require students to synthesize their legal studies education

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.

POR 1120 AS-LANG 4(4,1)
Elementary Portuguese Language and Civilization I: Introduces the student to Portuguese culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in this language.

POR 1121 AS-LANG 4(4,1)
Elementary Portuguese Language and Civilization II: PR: POR 1120 or C.I. Continuation of POR 1120. The course emphasizes the four major language skills: reading, writing, listening, and speaking.

POR 3140 AS-LANG 3(3,0)
Accelerated Portuguese for Speakers of Romance Languages: PR: FRE 2201, or ITA 2201, or SPN 2231, or course equivalent. Accelerated Portuguese for proficient speakers of Romance Languages. It is expected that students have no prior knowledge of Portuguese.

POS 2041 AS-POLS 3(3,0)
American National Government: A study of the dynamics of American national government, including its structure, organization, powers, and procedures.

POS 2041H AS-POLS 3(3,0)
Honors American National Government: Same as POS 2041 with honors-level content

POS 3122 AS-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.

POS 3173 AS-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.

POS 3182 AS-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.

POS 3233 AS-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.

POS 3235 AS-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.

POS 3253 AS-POLS 3(3,0)
Contemporary Revolution and Political Violence: Theories and cases of revolutionary change and political violence in the contemporary world.

POS 3258 AS-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.

POS 3273 AS-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.

POS 3413 AS-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.

POS 3424 AS-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.

POS 3443 AS-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.

POS 3463 AS-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.

POS 3627 AS-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.

POS 3703 AS-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.

POS 3949 AS-POLS 0(0,8)
Cooperative Education in Political Science: PR: Departmental permission required before registering. Cooperative education experience in political science. May be repeated. Graded S/U.

POS 4142 AS-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.

POS 4204 AS-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.

POS 4206 AS-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.

POS 4246 AS-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.

POS 4284 AS-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.

POS 4412 AS-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.

POS 4603 AS-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.

POS 4604 AS-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.

POS 4622 AS-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.

POS 4742 AS-POLS 3(3,0)
Geographic Information Systems for the Political Scientist: PR: POS 2041. Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems for political science research.

POS 4941L AS-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.

POT 3204 AS-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.

POT 3302 AS-POLS 3(3,0)
Modern Political Ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism.

POT 4003 AS-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.

POT 4025 AS-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.

POT 4054 AS-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).

POT 4066 AS-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.

POT 4109 AS-POLS 3(3,0)
Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature.

POT 4305 AS-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.

POT 4314 AS-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.

POT 4331 AS-POLS 3(3,0)
Utopia/Disutopia: PR: Junior standing or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and disutopias.

POT 4414 AS-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.

POT 4632 AS-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.

PPE 3003 AS-PSYCH 3(3,0)
Personality Theory: PR: PSY 2012. A survey of theory and research on the development of personality characteristics.

PPE 5055 AS-PSYCH 3(3,0)
Personality Theories: PR: G.A. or C.I. Critical theoretical models of personality development with applications to counseling, psychotherapy and psychological assessment.

PSB 3002 AS-PSYCH 3(3,0)
Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

PSB 3441 AS-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.

PSB 3842 AS-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.

PSB 4013C AS-PSYCH 4(3,2)
Neuropsychology: PR: PSB 3002. Study of brain function, with particular emphasis on human behavior. Lecture/Lab.

PSB 4103C AS-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.

PSB 4422 AS-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.

PSB 5005 AS-PSYCH 3(3,0)
Physiological Psychology: PR: PSB 3002 or C.I. An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

PSC 1121 AS-PHYS 3(3,0)
Physical Science: PR: MAC 1105 or MGF 1106. Fundamental laws of mechanics, heat, waves, electricity, magnetism; chemical processes and equations, properties of gases, liquids, solids, solutions.

PSC 1121H AS-PHYS 3(3,0)
Honors Physical Science: PR: Honors college, MAC 1105 or MGF 1106. PSC 1121 with Honors-level content.

PSC 1121L AS-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.

PSY 2012 AS-PSYCH 3(3,0)
General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity.

PSY 2012H AS-PSYCH 3(3,0)
Honors General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Honors-level content.

PSY 2023 AS-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.

PSY 3204 AS-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.

PSY 3214C AS-PSYCH 4(3,2)
Research Methods in Psychology: PR: PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format.

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PSY 3214H AS-PSYCH 4(3,2) Honors Research Methods in Psychology: PR: Permission of Honors and PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Honors content.	PUP 3508 AS-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.	PUR 4800 AS-COMM 3(3,0) Public Relations Campaigns: PR: Majors only, PUR 4000 or C.I. Planning and execution of public relations campaigns for profit and non-profit organizations.
PSY 3220C AS-PSYCH 3(2,2) Survey Methods in Psychology: PR: PSY 3214C and SOP 3004. Sampling methods, questionnaire construction, and interpretation of results.	PUP 4003 AS-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.	PUR 4801 AS-COMM 3(3,0) Public Relations Case Studies: PR: PUR 4000 or C.I. Discussion and analysis of public relations cases highlighting the application of PR theory to advance organizational goals
PSY 3302 AS-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.	PUP 4204 AS-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.	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.
PSY 3624 AS-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.	PUP 4209 AS-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.	RAT 3241 HPA-HP 3(3,0) Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy.
PSY 3951 AS-PSYCH 1-9(3-30) Undergraduate Field Work: PR: Senior standing and C.I. Placement in a community agency for supervised experience in applications of psychology to community problems. May be repeated for credit. Graded S/U.	PUP 4323 AS-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.	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.
PSY 4025 AS-PSYCH 3(3,0) The Psychology of Art: PR: PSY 2012 and ARH 205X. Discussion of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity.	PUP 4404 AS-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.	RAT 3614 HPA-HP 2(2,0) Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection.
PSY 4215C AS-PSYCH 4(3,2) Advanced Research Methods in Psychology: PR: PSY 3214C. Design, analysis, and interpretation of complex research projects in psychology.	PUP 4503 AS-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.	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.
PSY 4215L AS-PSYCH 3(0,3) Advanced Research Methods Statistical Lab: PR: PSY 3214C and CR: PSY 4215C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports.	PUP 4510 AS-POLS 3(3,0) Space Policy: An examination of the politics and policy-making involved with the US space program in the context of domestic demands and other international space programs.	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.
PSY 4305C AS-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.	PUP 4602 AS-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.	RAT 4619C HPA-HP 4(3,3) Radiation Therapy Physics III: PR: RAT 4618. Study of treatment planning principles and techniques, including multiple beam therapy, rotation therapy, arc therapy, and irregular field techniques.
PSY 4604 AS-PSYCH 3(3,0) History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positions.	PUP 4744 AS-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.	RAT 4804L HPA-HP 5(0,20) Clinical Education I: PR: RTE 3000, 3111, 3528, 3684, 3804, 3457, 3549, or C.I. Supervised clinical practice in patient care and orientation to radiation therapy simulation, and treatment planning and delivery procedures.
PSY 5605 AS-PSYCH 3(3,0) History and Systems of Psychology: PR: Acceptance to Clinical Psychology Ph.D. program or C.I. An examination of modern American psychology from its origins in the late 19th century to the present time. This course is intended for the Ph.D. in Clinical Psychology; in certain instances graduate students in other programs may enroll.	PUP 4931 AS-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 repeated once.	RAT 4814L HPA-HP 6(0,24) Clinical Education II: PR: RAT 4804. Supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units.
PUP 3203 AS-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.	PUR 3100 AS-COMM 3(2,1) Writing for Public Relations: PR: Majors only, Grammar Proficiency Examination, and typing test. Development of skills in writing for public relations.	RAT 4824L HPA-HP 6(0,24) Clinical Education III: PR: RAT 4814. Continued supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units.
PUP 3314 AS-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.	PUR 4000 AS-COMM 3(3,0) Public Relations: PR: SPC 1600C. Principles and practice of Public Relations including techniques, research tools publicity, and management.	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.
	PUR 4110C AS-COMM 3(1,3) Public Relations Publications: PR: ENC 2210 or PUR 3100 or JOU 2100C. Basic principles and techniques of desktop production of public relations publications.	RED 3310 ED-TLP 3(3,0) Emerging Literacy: PR: Admission to program, or C.I. Investigates emergence of reading/writing processes during preschool, kindergarten, and early first grade years.
		RED 4043 ED-TLP 3(3,0) Content Reading in Kindergarten through Grade

12: PR: Admission to the teacher education program and junior or senior class standing. Content literacy in the K-12 school curriculum: principles, strategies, assessment, and promising practices.

RED 4311 ED-TLP 3(3,0)
Development of Literacy: PR: RED 3310. Methods for development of reading and writing process during primary (first - third) grades.

RED 4519 ED-TLP 3(3,1)
Diagnostic and Corrective Reading Strategies: PR: RED 3012 or C.I. and admission to Phase II. An investigation of the needs of individual learners in reading instruction. Organization and techniques for promoting optimum reading growth. Concurrent school experiences required.

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.

RED 5514 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.

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.

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.

REE 4103 BA-FIN 3(3,0)
Real Estate Appraisal and Valuation: PR: FIN 3403. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis.

REE 4204 BA-FIN 3(3,0)
Real Estate Finance: PR: FIN 3403. Focus on the fundamentals of real estate finance utilizing tools of financial and economic analysis.

REE 4303 BA-FIN 3(3,0)
Real Estate Investment Analysis: PR: FIN 3403. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis.

REE 4732 BA-FIN 3(3,0)
Real Estate Development: PR: REE 4303. 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.

REL 2300 AS-PHIL 3(3,0)
World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam.

REL 2300H AS-PHIL 3(3,0)
Honors World Religions: PR: Permission of Honors College. Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. Honors-level content.

REL 3131 AS-PHIL 3(3,0)
Religion in America: PR: REL 2300. Religious traditions in America, their relationship to politics, popular culture, media, and society.

REL 3162 AS-PHIL 3(3,0)
Healing: Culture, Art and Praxis: PR: Junior standing. A theory of the culture-specific nature of illness, including soul loss, spirit intrusion and the medicalization of deviance.

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.

RET 3174 HPA-HP 3(3,0)
Pediatric Respiratory Care: PR: RET 3026. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS.

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.

RET 3483 HPA-HP 1(1,1)
Respiratory Disease Assessment: PR: RET 3026C. Physical examination of the chest, demonstrating equipment use, methods and theory. Chest radiography will be extensively covered. Lecture and demonstration.

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.

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.

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.

RET 4034 HPA-HP 3(3,0)
Problems in Patient Management: PR: RET 3484. Problem-oriented approach to the treatment of chronic and acute respiratory disorders. Computer-based clinical simulations are utilized. Emphasis on patient centered care planning.

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.

RET 4284 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics I: PR: RET 4244C. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing.

RET 4285 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics II: PR: RET 4244C and RET 4284C. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, streptokinase use, and heart surgery.

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.

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.

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.

RET 4503 HPA-HP 3(3,0)
Chest Medicine: PR: RET 3026. Disease states treated medically in conjunction with one or more modalities of respiratory therapy.

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.

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.

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.

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.

RMI 3011 BA-FIN 3(3,0)
Principles of Risk and Insurance: PR: FIN 3403. Emphasis is on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention.

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.

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.

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.

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.

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.

RTE 3457C HPA-HP 3(2.5,1.5)
Principles of Radiographic Exposure II: PR: RTE 3418 or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality.

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.

RTE 3513C HPA-HP 3(2,3)
Radiographic Procedures II: PR: RTE 3503C or C.I. Continuation of radiographic positioning, equipment

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manipulation, and quality evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones.

RTE 3684C 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.

RTE 3804 HPA-HP 4(0,16)
Clinical Education I: PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment.

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.

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.

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.

RTE 4385 HPA-HP 1(1,0)
Radiobiology: PR: RTE 3308C. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated.

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.

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.

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.

RTE 4762 HPA-HP 3(3,0)
Anatomy for the Medical Imager: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference.

RTE 4782 HPA-HP 2(2,0)
Pathophysiology: PR: C.I. The study of radiologic science in the diagnosis and treatment of disease.

RTE 4814L HPA-HP 5(0,20)
Clinical Education II: PR: RTE 3804. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the chest, abdomen, extremities and shoulder girdle.

RTE 4824L HPA-HP 6(0,24)
Clinical Education III: PR: RTE 4814. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography.

RTE 4834 HPA-HP 4(0,16)
Clinical Education IV: PR: RTE 4824. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranium,

facial bones, and special procedures.

RTE 4844 HPA-HP 4(0,16)
Clinical Education V: PR: RTE 4834. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on surgical and special procedure examinations.

RTE 4854 HPA-HP 2(0,8)
Advanced Clinical Practicum: PR: RTE 4824. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonances imaging.

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.

RTV 2102 AS-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.

RTV 3000 AS-R/TV 3(3,0)
Development and Structure of Electronic Media and New Technology: PR: SPC 1600 or C.I. Nature of the media, the mechanics of operation of analog and digital systems, history, economics, programming, and internal and external controls.

RTV 3200 AS-R/TV 3(3,0)
Production Fundamentals and Aesthetics of Electronic Media: PR: RTV 3000 or C.I. Technical and creative concepts of analog and digital electronic media production for radio, television, and multimedia delivery systems.

RTV 3210C AS-R/TV 4(4,3)
Audio Production I: PR: RTV 3200 and RTV Major. Audio production theory and recording techniques utilizing various microphone types, and digital non-linear audio computer-based editing equipment.

RTV 3223C AS-R/TV 3(3,3)
Lighting for Video: PR: RTV 3228C, RTV Major. Basic lighting techniques for both studio and location, single and multiple-camera video production.

RTV 3228C AS-R/TV 4(4,3)
Studio Television Production: PR: RTV 3200 and RTV major. All aspects of analog and digital television studio production including audio mixers, microphones, tape recorders, cameras, video switchers, lighting, and electronic graphics

RTV 3231C AS-R/TV 4(1,3)
Broadcast Announcing and Performance: PR: RTV Majors only, RTV 3210C or RTV 3260C or RTV 4270C or C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting.

RTV 3260C AS-R/TV 4(4,3)
Single Camera Video Production and Editing: PR: RTV 3200, RTV Major. 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).

RTV 3263C AS-R/TV 3(3,3)
Advanced Video Post-Production: PR: RTV 3260C, RTV Major. 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.

RTV 3283C AS-R/TV 3(3,1)
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.

RTV 3301 AS-R/TV 3(3,0)
Electronic Journalism I: PR: RTV 2102, RTV Major. Newswriting and newsgathering skills and strategies and their accompanying ethical considerations for analog and digital delivery of broadcast journalism.

RTV 3304 AS-R/TV 3(3,0)
Electronic Journalism II: PR: RTV 3301, RTV 3260C, and RTV Major. Newswriting and newsgathering strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages.

RTV 3501 AS-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.

RTV 3942L AS-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. May be repeated for credit. Graded S/U.

RTV 4206C AS-R/TV 4(4,3)
Television Directing: PR: RTV 3228C, RTV Major. Preparation and direction of programs, using both digital and analog resources, with emphasis on dramatic value and composition.

RTV 4211C AS-R/TV 3(3,3)
Audio Production II: PR: RTV 3210C and RTV Major. Creating the sound design and multiple track recording in the analog and digital domain

RTV 4270C AS-R/TV 3(3,3)
Radio Production and Programming: PR: RTV 3200, RTV Major. Study and production of current radio formats, the integration of digital resources, and their effects on today's radio listener.

RTV 4280C AS-R/TV 3(3,3)
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.

RTV 4281C AS-R/TV 3(3,3)
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

RTV 4320C AS-R/TV 3(1,3)
Television News: PR: RTV 3304, RTV Major. Production of a weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director.

RTV 4403 AS-R/TV 3(3,0)
Electronic Media, Technology, and Society: PR: or CR: RTV 3000. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media.

RTV 4503 AS-R/TV 3(3,0)
Sports Programming on Broadcast and Cable: PR: RTV 3000 or C.I. An examination of the factors that determine how sporting events are constructed for programming on broadcast stations and cable systems.

RTV 4505 AS-R/TV 3(3,1)
Program Issues for TV & Motion Pictures: PR: RTV 3000 or FIL 2400. An examination of program development theories, strategies and issues in the television and motion picture industries.

RTV 4700 AS-R/TV 3(3,0)
Regulation of Broadcasting: PR: RTV Majors only, RTV 3000. Federal, state, local and self-regulatory agencies and practices which govern electronic media.

RTV 4800 AS-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.	pharmacy, podiatry, and chiropractic. Graded S/U.	and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups.
RUS 1120 AS-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.	SOP 2772 AS-PSYCH 3(3,0) Sexual Behavior: PR: PSY 2012. Physiological, social, and clinical aspects of human sexuality.	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.
RUS 1121 AS-LANG 4(4,1) Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120.	SOP 3004 AS-PSYCH 3(3,0) Social Psychology: PR: PSY 2012. Effects of social situations and social variables on the behavior of individuals.	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.
RUS 2210 AS-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.	SOP 3723 AS-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.	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.
RUS 2230 AS-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.	SOP 3724 AS-PSYCH 3(3,0) The Psychology of Racial Prejudice: PR: PSY 2012. Examination of literature relating to prejudice toward ethnic groups: effects of racism on individuals, development and maintenance of prejudice, and possible ways to reduce prejudice.	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.
RUS 2231 AS-LANG 3(3,1) Intermediate Russian Language and Civilization II: PR: RUS 2230 or equivalent. Continuation of RUS 2230, with emphasis on Russian civilization.	SOP 3742 AS-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.	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.
RUS 3240 AS-LANG 3(3,0) Russian Conversation: PR: RUS 2231 or equivalent. Development of skills in conversation and comprehension through practice.	SOP 3784 AS-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.	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.
RUS 3760 AS-LANG 3(3,0) Advanced Russian Oral Communication: PR: RUS 2231 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.	SOP 5059 AS-PSYCH 3(3,0) Advanced Social Psychology: PR: SOP 3004 and graduate status, or C.I. The major findings and theories in social psychology including an in-depth review of relevant research.	SOW 4602 HPA-SOWK 3(3,0) Social Work in Health Settings: PR: SOW 3300 and SOW 3104. Study of social work roles, interventions, and issues related to helping patients in health settings.
SCE 3310 ED-TLP 3(3,0) Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures.	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.	SOW 4645 HPA-SOWK 3(3,0) Social Services for the Elderly: PR: SOW 3300, SOW 3104, or Gerontology Certificate Major. Development of interventive skills for obtaining, providing, and improving social services in behalf of elderly persons and their families.
SCE 4023 ED-TLP 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.	SOW 3111 HPA-SOWK 3(3,0) Assessing II: Human Systems: PR: or CR: SOW 3104. Development of skills in assessing families, groups, organizations, and communities, their impact on human functioning, and their potential for providing social support.	SOW 4654 HPA-SOWK 3(3,0) Children's Services: PR: SOW 3300, 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.
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.	SOW 3203 HPA-SOWK 3(3,0) Social Welfare and Community Resources: Study of social welfare, programs and services, including forces affecting changes in societal responses to human needs. Open to non-majors and pending social work majors.	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
SCE 5716 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.	SOW 3300 HPA-SOWK 3(2,1) Practice I: Generalist Practice in Social Work: Study of social work functions, knowledge, values, and skills. Development of ability to use a generalist model of practice.	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.
SCE 5825 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.	SOW 3352 HPA-SOWK 3(1,2) Practice II: PR: or CR: 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.	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.
SLS 1501 ED-ES 3(2,1) Strategies for Success in College: This course is designed to address the 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.	SOW 3401 HPA-SOWK 3(3,0) Social Work Research: PR: CGS 1060C. Study of quantitative and qualitative methods of building knowledge for social work and the ethical use of research in professional practice.	
SLS 2311 HPA-M&M 1(0,2) Overview of Select Medical Careers: An overview of the pre-health professions process for careers in medicine, dentistry, veterinary medicine, optometry,	SOW 3420 HPA-SOWK 3(2,1) Social Work with Minorities: PR: SOW 3300, SOW 3203, and SOW 3104. Study of oppressed groups	

UCF Courses and Descriptions

SOW 5106	HPA-SOWK	3(3,0)	integrative seminar 1 to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U.	and videotaped demonstrations of speech and hearing cases. Specific suggestions for prevention.				
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.								
SOW 5109	HPA-SOWK	3(3,0)	SOW 5604	HPA-SOWK	3(3,0)	SPA 3002	HPA-COMD	3(3,0)
Violence Against Women: A Global Perspective: PR: Graduate status or C.I. An introduction to the types of violence that impact women from a global perspective. Community, political, and economic issues that support violence against women will be discussed by country, ethnic group(s) within countries, and religious principles.			Medications in Social Work Practice: PR: graduate standing, pos-bac status, senior in SW program or C.I. The study of the effects that psychotropic medications can have within the counseling/helping relationship.			Introduction to Communicative Disorders: Etiology, symptoms, and methods of diagnosing and treating communicative disorders. For beginning and prospective majors in communicative disorders.		
SOW 5132	HPA-SOWK	3(3,0)	SOW 5624	HPA-SOWK	3(3,0)	SPA 3011	HPA-COMD	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.			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.			Speech Science I: Production: Study of how speech is produced, how it is transformed into an acoustic signal, and how that acoustic signal is measured.		
SOW 5235	HPA-SOWK	3(3,0)	SOW 5625	HPA-SOWK	3(3,0)	SPA 3011L	HPA-COMD	1(0,1)
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			Social Work with Women: Alternative approaches to the treatment of women in the urban setting.			Speech Production lab: PR: SPA 3112C. CR: SPA 3011. Physiological and acoustic measurement of speech production Graded S/U.		
SOW 5305	HPA-SOWK	3(3,0)	SOW 5642	HPA-SOWK	3(3,0)	SPA 3101	HPA-COMD	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.			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.			Physiological Bases of Speech and Hearing: PR: SPA 3002. An introduction to the anatomical, physiological, and physical elements underlying the communication process.		
SOW 5306	HPA-SOWK	3(3,0)	SOW 5644	HPA-SOWK	3(3,0)	SPA 3104	HPA-COMD	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.			Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certification program or MSW program or CI. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations.			Neural Bases of Communication: PR: SPA 3101. Structures and functions of the nervous system involved in communication and its disorders.		
SOW 5355	HPA-SOWK	3(3,0)	SOW 5655	HPA-SOWK	3(3,0)	SPA 3112	HPA-COMD	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.			Child Abuse: Treatment and Prevention: The social worker's role and interventions with victims of child abuse and their family members.			Basic Phonetics: CR: SPA 3112L. Physiological descriptions and visual notation of standard speech patterns and regional dialects.		
SOW 5387	HPA-SOWK	3(3,0)	SOW 5662	HPA-SOWK	3(3,0)	SPA 3112L	HPA-COMD	1(0,1)
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.			Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance.			Basic Phonetics Lab: CR: SPA 3112. Practice in the transcription of normal and deviant speech samples. Graded S/U.		
SOW 5404	HPA-SOWK	3(3,0)	SOW 5670	HPA-SOWK	3(3,0)	SPA 3123	HPA-COMD	3(3,0)
Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues.			Gay and Lesbian Experience in American Society: PR: seniors or graduate status. Sexual orientation in a cultural context: resources and policies affecting gay and lesbian people; and professional considerations in interventions with and for gay and lesbian clients.			Speech Science II: Perception: PR: SPA 3112C, SPA 3011. CR: SPA 3123L. How the perception of human speech differs from that of other auditory signals.		
SOW 5432	HPA-SOWK	3(3,0)	SOW 5695	HPA-SOWK	3(3,0)	SPA 3123L	HPA-COMD	1(0,1)
Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities.			Documentation Skills for Helping Professionals: PR: MSW Social Work Students, C/I. Study of documentation skills and record keeping for helping professionals			Speech Perception Lab: CR: SPA 3123. Laboratory techniques used in investigating human speech perception. Graded S/U.		
SOW 5532	HPA-SOWK	2(2,0)	SOW 5712	HPA-SOWK	3(3,0)	SPA 3621	HPA-COMD	3(3,0)
Generalist Field Education I: PR: Admission to MSW Prog/. Supervised practice of social work in an agency for 224 clock hours. Graded S/U.			Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances.			Introduction to Signed English and Culture of the Deaf: Vocabulary and grammar through introductory level. Conceptual basis of ASL discussed.		
SOW 5533	HPA-SOWK	2(2,0)	SOW 5713	HPA-SOWK	3(3,0)	SPA 3632	HPA-COMD	3(3,0)
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.			Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An in-depth review of prevention, intervention and treatment of Adolescent Substance Abuse			Communicative Disorders in the Deaf and Hard of Hearing Population: PR: SPA 2631 or C.I. Speech, language, and hearing problems in the D/HH population, including etiology, pathology, and management of hearing disorders.		
SOW 5534	HPA-SOWK	1(1,0)	SOW 5846	HPA-SOWK	3(3,0)	SPA 4032	HPA-COMD	3(3,0)
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.			Spirituality in Professional Counseling: PR: graduate standing, post-bac status, seniors, or C.I. Examination of spirituality as it relates to professional counseling.			Audiology: PR: SPA 3123. Physics of sound, anatomy of hearing mechanism, pure tone audiometry, hearing aids, problems of the deaf and hard of hearing. Clinical Skills development required.		
SOW 5537	HPA-SOWK	1(1,0)	SPA 2631	HPA-COMD	3(3,0)	SPA 4050L	HPA-COMD	3(0,6)
Generalist Field Education Integrative Seminar II: PR: Admission to MSW program. CR: Generalist Field Education II. Continuation of generalist field education			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.			Clinical Observation: PR: SPA 4550. Observation of speech, language, and hearing evaluations and intervention. Emphasis on goal setting, motivation, behavior management, shaping, reinforcement, data collection, and non-verbal communication.		
			SPA 3000	HPA-COMD	3(3,0)	SPA 4052L	HPA-COMD	3(0,3)
			Detection and Prevention of Speech and Hearing Problems: An elective course for non-majors. Live			Clinical Practice: Participant Observation: PR: SPA 4550. Supervised participation in on-campus clinic by serving as participant observer with one client. Emphasis on applying skills learned in Clinical Methods and Clinical Observation.		

ders, including those associated with structural variations and neuromotor disorders.

SPA 4241 HPA-COMD 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.

SPA 4321 HPA-COMD 3(3,0)
Aural Habilitation: Rehabilitation: PR: SPA 4032, SPA 4400C, SPA 4201C. Principles and procedures in the use of residual hearing, auditory training, speech reading, and the use of hearing aids.

SPA 4400 HPA-COMD 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.

SPA 4550 HPA-COMD 3(3,0)
Clinical Methods in Communicative Disorders: CR: SPA 4050L, SPA 4201 and SPA 4400. The principles and techniques of case management with an emphasis on designing individualized treatment programs for individuals with communication disorders.

SPA 4556 HPA-COMD 3(3,0)
Therapeutic Communication: Practical interviewing and counseling in the area of communicative disorders.

SPA 4557 HPA-COMD 3(3,0)
Augmentative Communication Systems: PR: LIN 3710, SPA 4032. Students will learn the rudiments of nonverbal communication systems, for example, Bliss, Rebus, Manual Singing, Language Boards, and finger spelling.

SPA 4612 HPA-COMD 3(3,0)
Introduction to American Sign Language: Development of ASL vocabulary and grammar. Deaf culture, literature, research examined.

SPA 4613 HPA-COMD 3(3,0)
Intermediate American Sign Language: Expansion of ASL vocabulary with increased development of knowledge concerning deaf culture.

SPA 4614C HPA-COMD 4(3,1)
American Sign Language III: PR: SPA 4613. Conversation. Emphasis on refining fluency receptively and expressively. Practicum with the deaf community.

SPA 4615 HPA-COMD 4(4,0)
American Sign Language IV: PR: SPA 4614C or consent of instructor. Advanced study in complex grammar, facial expression, metaphorical and idiomatic vocabulary, emphasizing production of non-voiced, conversational, spontaneous signed sentences, "reading" signed phrases and sentences.

SPA 4617 HPA-COMD 3(3,0)
Structure of American Sign Language: PR: SPA 4612 and SPA 4613 or C.I. Study of phonologic, syntactic, semantic, and discourse structure of ASL, including an emphasis on the biological basis of language and communication.

SPA 4626 HPA-COMD 3(3,0)
Fingerspelling: PR: SPA 4612 and SPA 4613 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels.

SPA 4652 HPA-COMD 3(3,0)
Ethics of Interpreting Sign Language: PR: SPA 4612, SPA 4613, SPA 4614C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings.

SPA 4660C HPA-COMD 4(3,1)
Interactive Interpreting I: PR: SPA 4612, SPA 4613 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter's role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations.

SPA 4662C HPA-COMD 4(3,1)
Interactive Interpreting II: PR: SPA 4660C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL.

SPA 5327 HPA-COMD 3(3,0)
Aural Habilitation/Rehabilitation: PR: SPA 6204, SPA 6401. Principles and procedures involved in speech and language acquisition, management, utilization of residual hearing, speech reading, and the use of hearing aids.

SPA 5473 HPA-COMD 3(3,0)
Multicultural Aspects of Communication Disorders and Differences: PR: Graduate status. Introduction to cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native-American.

SPA 5477 HPA-COMD 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.

SPA 5559 HPA-COMD 3(3,0)
Augmentative and Alternative Communication Systems: PR: Senior status or C.I. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability.

SPA 5561 HPA-COMD 3(3,0)
Counseling in Communicative Disorders: PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families.

SPA 5570 HPA-COMD 3(3,0)
Administration and Management of Communicative Disorders Programs: PR: SPA 6553, SPA 5237, seminar. Methods and techniques for organization and administration of speech-language and hearing disorders in public school, hospital, rehabilitation center, and private practice facilities.

SPC 1016 AS-COMM 3(3,0)
Fundamentals of Technical Presentations: Preparation and presentation of technical information in public speaking situations.

SPC 1016H AS-COMM 3(3,0)
Honors Fundamentals of Technical Presentation: PR: Honors college. The preparation and presentation of technical information in public speaking situations.

SPC 1600 AS-COMM 3(3,0)
Fundamentals of Oral Communication: Use of the body and voice; participation in various speaking situations; planning, organizing, and delivering public speeches.

SPC 1600H AS-COMM 3(3,0)
Honors Fundamentals of Oral Communication: PR: University Honors Program. Same as SPC 1600 with honors-level content.

SPC 3301 AS-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.

SPC 3425C AS-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.

SPC 3445 AS-COMM 3(3,0)
Leadership Through Oral Communication: PR: COM 3120 and COM 3311. A theoretical and practical investigation of leadership in oral communication situations, principles of parliamentary law, and approaches to problem solving.

SPC 3513 AS-COMM 3(1,2)
Argumentation and Debate: PR: SPC 1600C or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization.

SPC 3602 AS-COMM 3(1,2)
Advanced Public Speaking: PR: SPC 1600C or C.I. Advanced training in selecting and organizing materials for various types of speeches. Practice in thinking and speaking before audiences.

SPC 4331 AS-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.

SPC 4350 AS-COMM 3(3,0)
Studies in Listening: PR: COM 3311. Analysis of current trends, professional literature, and resource materials bearing upon the teaching of listening. Practice in listening; preparing listening experiences; oral and written reports.

SPC 4426 AS-COMM 3(3,0)
Group Dynamics: PR: SPC 3425C and COM 3311. A study of human behavior in group situations.

SPC 4540 AS-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.

SPN 1120 AS-LANG 4(4,1)
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.

SPN 1121 AS-LANG 4(4,1)
Elementary Spanish Language and Civilization II: PR: SPN 1120 or equivalent. Continuation of SPN 1120.

SPN 1130H AS-LANG 4(4,1)
Honors 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. Honors-level content.

SPN 1131H AS-LANG 4(4,1)
Honors Elementary Spanish Language and Civilization II: PR: SPN 1130H or equivalent. Same as SPN 1121 with honors-level content.

SPN 1170 AS-LANG 8(16,10)
Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment.

SPN 2230 AS-LANG 3(3,1)
Intermediate Spanish Language and Civilization I: PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

SPN 2231 AS-LANG 3(3,1)
Intermediate Spanish Language and Civilization II: PR: SPN 2230 or equivalent. Continuation of SPN

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2230, with emphasis on Spanish civilization.

SPN 2240 AS-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.

SPN 2241 AS-LANG 3(3,0)
Spanish Conversation: PR: SPN 2231 or equivalent. Development of skills in conversation and comprehension through practice.

SPN 2340 AS-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.

SPN 2511 AS-LANG 3(3,0)
Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and realia are essential components of this course

SPN 3140 AS-LANG 3(3,0)
Business Spanish I: PR: SPN 2230 and SPN 2231 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World.

SPN 3141 AS-LANG 3(3,0)
Business Spanish II: PR: C.I. Continuation of Business Spanish I.

SPN 3142 AS-LANG 3(3,0)
Business Spanish III: PR: C.I. Continuation of Business Spanish II.

SPN 3232 AS-LANG 3(3,0)
Advanced Directed Readings: PR: SPN 2230 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers.

SPN 3300 AS-LANG 3(3,0)
Advanced Spanish Grammar and Composition: PR: SPN 2231 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts.

SPN 3341 AS-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.

SPN 3343 AS-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.

SPN 3344 AS-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.

SPN 3345 AS-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.

SPN 3402 AS-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.

SPN 3420 AS-LANG 3(3,0)
Spanish Composition: PR: SPN 2231 or equivalent. Development of skills in composition.

SPN 3512 AS-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.

SPN 3760 AS-LANG 3(3,0)
Advanced Spanish Oral Communication: PR: SPN 2231 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.

SPN 3850 AS-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.

SPN 3852 AS-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.

SPN 3933 AS-LANG 1(1,0)
Spanish Across the Curriculum: PR: SPN 2231 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.

SPN 4143 AS-LANG 3(3,0)
Business Spanish IV: PR: C.I. Advanced course in business terminology and development of advanced language skills.

SPN 4410 AS-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.

SPN 4421 AS-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.

SPN 4510 AS-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.

SPN 4520 AS-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.

SPN 4780 AS-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.

SPN 4800 AS-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.

SPN 4801 AS-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.

SPN 5502 AS-LANG 3(3,0)
Hispanic Culture of the United States: PR: Graduate Standing or C.I. An analysis of the Hispanic culture of the United States, past and present.

SPN 5505 AS-LANG 3(3,0)
Spanish Peninsular Culture and Civilization: PR: Graduate Standing or C.I. An analysis of the salient characteristics of Spanish culture and civilization.

SPN 5506 AS-LANG 3(3,0)
Spanish American Culture and Civilization: PR: Graduate Standing or C.I. An analysis of the salient characteristics of Spanish American culture and civilization.

SPN 5705 AS-LANG 3(3,0)
Introduction to Spanish Linguistics: PR: Graduate 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.

SPN 5825 AS-LANG 3(3,0)
Spanish Dialectology: PR: Graduate 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.

SPN 5845 AS-LANG 3(3,0)
History of the Spanish Language: PR: Graduate 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.

SPN 5920 AS-LANG 3(3,0)
AP Spanish Language: 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.

SPT 3800 AS-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.

SPT 3805 AS-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.

SPT 3809 AS-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.

SPT 3831 AS-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.

SPT 4801 AS-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.

SPW 3000H AS-LANG 3(3,0)
Honors: Nobel Prize Literature: Spain and Latin America: PR: Honors, 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.

SPW 3100 AS-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.

SPW 3101 AS-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.

SPW 3130 AS-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.

SPW 3131 AS-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.

SPW 3320 AS-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.

SPW 3321 AS-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.

SPW 3370 AS-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.

SPW 4272 AS-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.

SPW 4310 AS-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, Alarcón, and Calderón. The controversies of the Spanish theatre and its influence abroad are examined.

SPW 4322 AS-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.

SPW 4364 AS-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. Course could be repeated for credit when topic changes.

SPW 4381 AS-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. Course could be repeated for credit when topic changes.

SPW 4382 AS-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.

SPW 4450 AS-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.

SPW 4460 AS-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.

SPW 4600 AS-LANG 3(3,0)
Cervantes: PR: SPW 3100 or C.I. Don Quixote.

SPW 4720 AS-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.

SPW 4730 AS-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.

SPW 4770 AS-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.

SPW 4772 AS-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.

SSE 3312 ED-TLP 3(3,0)
Teaching Social Science in the Elementary School: PR: Admission to Phase II or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques; evaluation procedures.

SSE 4361 ED-TLP 4(3,2)
Social Science Instructional Analysis: PR: EDG 4323 or C.I. Study of instructional programs in social sciences; objectives; materials; techniques; organization of instruction; evaluation procedures; current research for the middle grades and high school.

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.

SSE 5391 ED-TLP 3(3,0)
Problems in World Studies Education: PR: C.I. The examination of theories of World Studies Education along with insights into the practical dilemmas of world teaching.

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.

STA 1060C AS-STAT 3(2,1)
Basic Statistics Using Microsoft Excel: Applications of Excel; manipulating data; single variable graphs and statistics; scatterplots; probability distributions; statistical inference.

STA 2014C AS-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. Course is graded with an "A," "B," "C," "NC" and "F."

STA 2023 AS-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.

STA 2023H AS-STAT 3(3,0)
Honors Statistical Methods I: PR: Honors Program Student; Calculus desired but not necessary. Same as STA 2023 with honors-level content.

STA 3032 ECS-IEMS 3(3,0)
Probability and Statistics for Engineers: PR: MAC 2312 and computer programming. 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.

STA 3096 AS-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.

STA 4102 AS-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.

STA 4130 AS-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.

STA 4131 AS-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.

STA 4163 AS-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.

STA 4164 AS-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.

STA 4165 AS-STAT 3(3,0)
Statistical Methods II with Computer Emphasis: PR: STA 2023 or STA 3032. Not open to students with credit in STA 4163. Methods for analyzing data, design of experiments, non parametric methods, categorical analysis, model building, covariance analysis, strong emphasis on use of a computer package.

STA 4173 AS-STAT 3(3,0)
Biostatistical Methods: CR: STA 4163. Introduction to the application of statistical principles and methods to problems in medical, biological, and health sciences.

STA 4183 AS-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.

STA 4187 AS-STAT 3(3,0)
Theory of Graduation: PR: STA 4322. Graduation, moving weighted averages methods, Whitaker-

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Henderson, Bayesian and parametric methods, smooth-junction formula, graduation of selected data.

STA 4222 AS-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.

STA 4321 AS-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.

STA 4322 AS-STAT 3(3,0)
Statistical Theory II: PR: STA 4321. Conditional distributions, sums of random variables. Chebyshev's inequality, central limit theorem, method of moments, maximum likelihood, confidence intervals, hypothesis testing, transformations of two random variables.

STA 4502 AS-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.

STA 4504 AS-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.

STA 4641 AS-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.

STA 4664 AS-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.

STA 4675 AS-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.

STA 4676 AS-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.

STA 4852 AS-STAT 3(3,0)
Applied Time Series: PR: STA 4163. Forecasting methods, time series analysis, stationary and nonstationary time series, ARIMA models, forecasting processes.

STA 4939 AS-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.

STA 4942 AS-STAT 3(3,0)
Practicum in Actuarial Science: PR: STA 4183 or STA 5183. Discussion and presentation by actuarial practitioners.

STA 5103 AS-STAT 3(3,0)
Advanced Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Use of SAS and other statistical software packages; data manipulation; graphical data

presentation; data analysis; creating analytical reports

STA 5139 AS-STAT 3(3,0)
Credibility Theory and Loss Distribution: PR: STA 4322. 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.

STA 5175 AS-STAT 3(3,0)
Biometry: PR: STA 2023 or C.I. Design and analysis of experiments with emphasis on biological/ecological application; one-way and multi-way ANOVA; regression; ordination; classification.

STA 5176 AS-STAT 3(3,0)
Introduction to Biostatistics: PR: STA 4163 or STA 4173. Fixed-effects model, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportional hazards model.

STA 5185 AS-STAT 3(3,0)
Advanced Theory of Interest: PR: MAC 2312 and STA 2023. Measurement of Interest, valuation of annuities, determination of yield rates on investments, fixed income securities, mortgages, etc.

STA 5205 AS-STAT 3(3,0)
Experimental Design: PR: STA 4164, STA 5206 or ESI 5219. Construction and analysis of designs for experimental investigations. Blocking, randomization, replication; Incomplete block designs; factorial and fractional designs; design resolution.

STA 5206 AS-STAT 3(3,0)
Statistical Analysis: PR: STA 2023; not open to students who have completed STA 4164. Data analysis; statistical models; estimation; tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods.

STA 5505 AS-STAT 3(3,0)
Categorical Data Methods: PR: STA 4163 or STA 5206. Considers discrete probability distributions, contingency tables, measures of association, and advanced methods, including loglinear modeling, logistic regression, McNemar's Test, Mantel-Haenszel test.

STA 5646 AS-STAT 3(3,0)
Casualty Insurance: PR: STA 4322 and STA 4641. 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.

STA 5703 AS-STAT 3(3,0)
Data Mining Methodology I: PR: STA 5103 and STA 5206. Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access). Process with neural network and decision tree.

STA 5825 AS-STAT 3(3,0)
Stochastic Processes and Applied Probability Theory: PR: STA 4321. 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.

STA 5940 AS-STAT 1(1,0)
Statistical Advice for Researchers: PR: 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.

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.

SYA 3110 AS-SOC/AN 3(3,0)
The Development of Social Thought: PR: Junior

standing and 9 hours of upper level sociology courses or C.I. Theories concerning the nature of mankind as a "social being." The nature of society from the beginnings of the scientific study of human life to World War II.

SYA 3120 AS-SOC/AN 3(3,0)
Modern Sociological Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. A study of major European and American contributors to modern sociology since World War II.

SYA 3300 AS-SOC/AN 4(3,2)
Research Methods: PR: SYG 2000 and SYA 3400 (may be taken concurrently). Emphasis on types of sociological data collections, sampling techniques, grant proposal development, critical evaluation of social research, and relationship between theory and social research.

SYA 3400 AS-SOC/AN 4(3,1)
Research Methods and Statistics: PR: SYG 2000 and one other sociology course.

SYA 4112 AS-SOC/AN 3(3,0)
The Thought and Writings of W.E.B. Du Bois: PR: SYG 2000 or C.I. The sociological/social scientific contributions of W.E.B. Du Bois.

SYA 4450 AS-SOC/AN 4(3,2)
Data Analysis: PR: SYA 3300 and SYA 3400. Advanced social research design and analytical skills. Emphasis on social data management, various modes of social data analysis, interpretation, integration, presentation, and report writing.

SYA 4650C AS-SOC/AN 3(2,2)
Applied Sociology: PR: SYG 2000 or C.I. Examination of the utilization of sociological principles in the treatment of practical human problems and organization.

SYA 5625 AS-SOC/AN 3(3,0)
ProSeminar: 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.

SYA 5937 AS-SOC/AN 3(3,0)
Advanced Population: Examines the theories, methods, and information utilized by demographers and focuses on techniques of application of those skills.

SYD 3410 AS-SOC/AN 3(3,0)
Urban Sociology: PR: SYG 2000 or C.I. Historical roots of urbanization. Analysis and impact of community change on social organizations in modern industrial societies.

SYD 3700 AS-SOC/AN 3(3,0)
Race and Ethnic Minorities in the United States: Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification.

SYD 3750 AS-SOC/AN 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.

SYD 3751 AS-SOC/AN 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.

SYD 3752 AS-SOC/AN 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.

SYD 3800 AS-SOC/AN 3(3,0)
Sex Roles in Modern Society: The traditional and changing roles of women and men viewed in a sociological perspective.

SYD 4020 AS-SOC/AN 3(3,0)
Population: Concerned with the study of human population, its distribution, composition, and change.

SYD 4510 AS-SOC/AN 3(3,0)
Environmental Sociology: PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment.

SYD 5795 AS-SOC/AN 3(3,0)
Class, Race, and Gender in American Society: PR: Graduate Status 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.

SYG 2000 AS-SOC/AN 3(3,0)
General Sociology: Introduction to the sociological perspective and the scientific study of sociological concepts, theories, processes, and methods used in understanding contemporary human behavior in group interaction.

SYG 2000H AS-SOC/AN 3(3,0)
General Sociology: Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology.

SYG 2010 AS-SOC/AN 3(3,0)
Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence.

SYG 3949 AS-SOC/AN 0(0,8)
Cooperative Education in Sociology: PR: Departmental permission required before registering. Cooperative education experience in sociology. May be repeated. Graded S/U.

SYO 3000 AS-SOC/AN 3(3,0)
Modern Sociology: PR: SYG 2000 or C.I. An in-depth exploration of contemporary sociology. Introduction to conceptual analysis and methodological techniques, presentation and utilization of sociological literature on major social institutions.

SYO 3360 AS-SOC/AN 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.

SYO 3410 AS-SOC/AN 3(3,0)
Sociology of Mental Illness: A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions.

SYO 3530 AS-SOC/AN 3(3,0)
Social Stratification: PR: SYG 2000 or C.I. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change.

SYO 4100 AS-SOC/AN 3(3,0)
Family Trends: PR: SYG 2000 or C.I. Study of intimate relationships, practices, trends and issues affecting today's marriages and families.

SYO 4200 AS-SOC/AN 3(3,0)
Sociology of Religion: PR: SYG 2000 or C.I. The relationship between the religious institution and social stratification, family, education, as well as

issues pertaining to gender, race, ethnicity, and age.

SYO 4250 AS-SOC/AN 3(3,0)
Sociology of Education: PR: SYG 2000 or C.I. This course examines the sociological dimensions of the educational institutions, including the impact of the social structure on learning and the role of education in social change.

SYO 4300 AS-SOC/AN 3(3,0)
Political Sociology: Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government.

SYO 4400 AS-SOC/AN 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.

SYP 3300 AS-SOC/AN 3(3,0)
Collective Behavior: PR: SYG 2000 or C.I. Analysis of relatively unstructured social situations, such as mobs, crowds, etc. as well as more structured forms of collective behavior such as social movements.

SYP 3400 AS-SOC/AN 3(3,0)
Social Change: PR: SYG 2000. Concerned with the context and essential sources of social development and change.

SYP 3510 AS-SOC/AN 3(3,0)
Sociology of Deviant Behavior: PR: SYG 2000 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization

SYP 3511 AS-SOC/AN 3(3,0)
Sociology of Murder: PR: SYG 2000, Junior standing, or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances.

SYP 3520 AS-SOC/AN 3(3,0)
Criminology: 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.

SYP 3530 AS-SOC/AN 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.

SYP 3540 AS-SOC/AN 3(3,0)
Sociology of Law: The relationship between law and society, including the functions of law and its organization, social and economic consequences, jury selection, and modern trends.

SYP 3551 AS-SOC/AN 3(3,0)
Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society.

SYP 3602 AS-SOC/AN 3(3,0)
Sociology of Popular Music: This course examines the role of popular music in the process of social change and in reflecting American culture. Consideration is given to the nature of the popular music business.

SYP 3630 AS-SOC/AN 3(3,0)
Sociology of Popular Culture: PR: Junior Standing or C.I. Examines the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age.

SYP 3650 AS-SOC/AN 3(3,0)
Sociology and Sport: 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.

SYP 4000 AS-SOC/AN 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.

SYP 4004 AS-SOC/AN 3(3,0)
Constructing Social Issues: PR: SYG 2000 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.

SYP 4323 AS-SOC/AN 3(3,0)
Social Systems and Diversity: PR: SYG 2000, 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.

SYP 4454 AS-SOC/AN 3(3,0)
Sociology of the Global System: PR: SYG 2000 or C.I. Theoretical and empirical examination of the sociological process of global stratification and the countervailing force of an emergent anti-globalization social movement.

SYP 4514 AS-SOC/AN 3(3,0)
Sociology of Violence: PR: SYG 2000 or C.I. Social roots, culture, circumstances, prevention, and control of violence.

SYP 4521 AS-SOC/AN 3(3,0)
Criminal Victimization in Society: PR: SYG 2000, Junior standing, or C.I. A study of crime victims in society; topics include issues related to victimology such as victimization risks and societal treatment of victims

SYP 4536 AS-SOC/AN 3(3,0)
Gangs and Society: PR: SYG 2000, Junior Standing, or C.I. A study of gangs in the U.S.; topics include types of gangs, gang members, activities, group processes, and societal responses to gangs

SYP 4550 AS-SOC/AN 3(3,0)
Sociology of Drug Abuse: Analysis of the socio-cultural elements of the drug culture.

SYP 4730 AS-SOC/AN 3(3,0)
Sociology of Aging: Sociological aspects of aging in America.

SYP 4734 AS-SOC/AN 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.

SYP 4810 AS-SOC/AN 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.)

SYP 4813 AS-SOC/AN 3(3,0)
Women and Social Policy: PR: SYG 2000 or C.I. The process of social movements and how they impact legalized social norms for women in public and private life.

SYP 5005 AS-SOC/AN 3(3,0)
Sociological Social Psychology: PR: regular graduate standing. An exploration of sociological social psychological theories and their application in understanding the effects of society and groups on the individual.

SYP 5526 AS-SOC/AN 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

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research projects.

SYP 5562 AS-SOC/AN 3(3,0)

Seminar on Domestic Violence: Theory, Research and Social Policy: PR: Graduate status or C.I. A sociological examination and evaluation of theories, empirical research and social policy related to the study of domestic violence.

SYP 5738 AS-SOC/AN 3(3,0)

Seminar on the Welfare State & Aging: PR: Graduate standing or C.I. A sociological examination of old policies from a cross-cultural perspective.

TAX 2000 BA-ACCT 3(3,0)

Personal Income Tax: A study of federal income tax designated to convey basic tax concepts and skills related to the individual taxpayer. Not open to accounting majors.

TAX 4001 BA-ACCT 3(3,0)

Federal Income Tax I: PR: Junior standing and ACG 3101 with a grade of "C" or better or C.I. Concepts and methods of determining taxable income of individuals, and selected topics.

TAX 5015 BA-ACCT 3(3,0)

Advanced Tax Topics: PR: TAX 4001 or TAX 4XXX (Taxation of Business Entities), or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships.

THE 2000 AS-THEA 3(3,0)

Theatre Survey: Overview of the art and craft of the theatre. Restricted to non majors.

THE 2000H AS-THEA 3(3,0)

Theatre Survey - Honors: PR: Honors student. Not restricted to theatre majors. Honors-level overview of the art and craft of the theatre.

THE 2020 AS-THEA 3(3,0)

Survey of Theatre for Majors: PR: Theatre major or departmental consent. Overview of the art and craft of theatre.

THE 2090 AS-THEA 1(0,20)

Theatre Production/Performance I: PR: B.A. Theatre major or C.I. Non-majors require departmental permission. Participation in UCF Theatre productions. Required of all BA theatre majors.

THE 2091 AS-THEA 1(0,20)

Theatre Production/Performance II: PR: THE 2090, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

THE 2271 AS-THEA 3(3,0)

Performance Studies: PR: THE 2020 or THE 2000. Restricted to B.A. Theatre majors. Techniques, theories, practices, and training of the acting profession from Greek to modern performance art.

THE 3092 AS-THEA 1(0,20)

Theatre Production/Performance III: PR: THE 2091, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

THE 3110 AS-THEA 3(3,0)

Theatre History I: PR: THE 2020 or THE 2000, and THE 3303 or TPP 3650, Theatre majors or departmental consent. The development of theatre arts from prehistory through the seventeenth century.

THE 3111 AS-THEA 3(3,0)

Theatre History II: PR: THE 3110, THE 3305. Theatre major or departmental consent. Theatre arts from the seventeenth century to the present.

THE 3230 AS-THEA 3(3,0)

Commonality within Cultural Diversity Experienced through Theater: PR: THE 2020 or

THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups.

THE 3240 AS-THEA 3(3,0)

Musical Theatre Survey: PR: THE 2020 or THE 2000. American musical theatre with emphasis on the great composers, lyricists, designers, and directors of the evolution of musical theatre.

THE 3303 AS-THEA 3(3,0)

Play Analysis: PR: Restricted to B.A. Theatre majors or departmental consent. A lecture course providing an overview of different elements found in the world of the play and the written text. Emphasis on theory and structure.

THE 3305 AS-THEA 3(3,0)

Dramatic Literature I: PR: THE 2020 or THE 2000, THE 3303 or TPP 3650, Theatre major or departmental consent. Playscripts from Sophocles to Jonson.

THE 3306 AS-THEA 3(3,0)

Dramatic Literature II: PR: THE 3305, THE 3110. Restricted to Theatre majors or departmental consent. Playscripts from Restoration to Mid-20th Century.

THE 4093 AS-THEA 1(0,20)

Theatre Production/Performance IV: PR: THE 3092, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

THE 4094 AS-THEA 1(0,20)

Theatre Production/Performance V: PR: THE 4093, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

THE 4096 AS-THEA 1(0,20)

Theatre Production/Performance VI: PR: THE 4094, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent.

THE 4097 AS-THEA 1(0,20)

Theatre Production/Performance VII: PR: THE 4096, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent.

THE 4098 AS-THEA 1(0,20)

Theatre Production/Performance VIII: PR: THE 4097, Theatre Major or C.I. Participation in UCF Theatre productions.

THE 4372 AS-THEA 3(3,0)

Theatre/Drama of Tennessee Williams: PR: THE 3110, THE 3305, or C.I. Study of Tennessee Williams from a literary, performance, and historical view.

THE 5246C AS-THEA 3(3,2)

Musical Theatre: PR: graduate acting 1. Historical study of the origins and development of musical theatre up to and including the work of Andrew Lloyd Webber.

THE 5269 AS-THEA 3(3,0)

Period Props, Furniture & Architecture: PR: Admission into the graduate program & Research Methods (no # assigned). Advanced Chronological study of historical genres and styles of furniture, ornament and design and their interrelationships.

THE 5275 AS-THEA 3(3,0)

Survey of Musical Theatre Dance: PR: Admission to MFA Musical Theatre Program. A chronological and theoretical study of the major choreographers and choreographer/directors of musical theatre.

THE 5307 AS-THEA 3(3,0)

Contemporary Theatre Practice: PR: THE 3110, THE 3111, THE 3306. Restricted to Theatre majors or departmental consent. Contemporary trends in plays

and theatre production in the late 20th century.

THE 5376 AS-THEA 3(3,0)

Theatre/Drama of Williams, Miller, and Inge: PR: Entrance into the Graduate Program. Study of Tennessee Williams, Arthur Miller, and William Inge from a literary, performance, and historical view, instilling in students a knowledge/appreciation of their plays.

THE 5910 AS-THEA 3(3,0)

Research Methods in Theatre: PR: MFA abd MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms

THE 5945L AS-THEA 1(0,20)

Theater Practicum I: PR: Admission into the graduate program. A laboratory course designed to develop students' practical working knowledge in Theater

THE 5946L AS-THEA 1(0,20)

Theater Practicum II: PR: Admission into the graduate program, Theater Practicum I. A laboratory course designed to develop students' practical working knowledge in theater

TPA 2000C AS-THEA 3(2,2)

Theatre Design Basics: PR: 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.

TPA 2071C AS-THEA 3(2,2)

Theatre Rendering: PR: THE 2000, TPA 2000C. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers.

TPA 2210 AS-THEA 3(3,6)

Stagecraft I: PR: THE 2020 or THE 2000, Restricted to Theatre majors or departmental consent. History, theory, and practice of technical theatre production. Production crew required. Required of all B.F.A. Theatre majors.

TPA 2211 AS-THEA 3(3,6)

Stagecraft II: PR: THE 2020 or THE 2000, TPA 2210, Restricted to B.F.A. Theatre majors. Continuation of TPA 2210. Production crew as required.

TPA 2220 AS-THEA 3(2,2)

Stage Lighting: PR: TPA 2211. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with Departmental consent. Study of basic electricity, optics, lighting equipment and control, and stage lighting techniques and practices. Service on a lighting crew as required. Required of all technical theatre/design majors.

TPA 2248C AS-THEA 2(2,2)

Makeup Techniques: PR: THE 2020 or THE 2000. Theatre B.F.A. major or departmental consent. Theory and practice of stage makeup.

TPA 2201 AS-THEA 3(3,3)

Technical Theatre Production: PR: THE 2020 or THE 2000. Restricted to B.A. Theatre and B.F.A. Musical Theatre majors. The history, theory and practice of all areas of technical theatre production. Required of all BA theatre majors.

TPA 2290 AS-THEA 1(0,20)

Theatre Production/Performance I: PR: Not restricted to Theatre majors but requires Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors.

TPA 2291 AS-THEA 1(0,20)

Theatre Production/Performance II: PR: TPA 2290, open to non-Theatre majors with Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors.

TPA 3040 AS-THEA 3(2,2)
Costume Design: PR: TPA 3230, TPA 3044C and two semesters of art. Restricted to B.F.A. Theatre majors. Lecture/laboratory application of the fundamentals of design, composition, color theory, and figure drawing as they relate to costume design. Includes script/character analysis and project design work with an emphasis on visualization of design concepts and costume renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3043C AS-THEA 3(3,1)
Costume History I: PR: THE 3110, Theatre major or departmental consent. Costume fashion from ancient Egypt to the mid 17th century, including basic period silhouette, costume parts and accessories.

TPA 3044C AS-THEA 3(3,1)
Costume History II: PR: TPA 3043C, Restricted to Theatre majors or departmental consent. Costume Fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories.

TPA 3060 AS-THEA 3(2,2)
Scenic Design I: PR: TPA 2211, THE 3303 or TPP 3650, and one semester of art. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with departmental consent. Lecture/laboratory application of the fundamentals of design, composition, color theory, drafting, perspective drawing, and rendering as they relate to scenic design. Required of all technical theatre/design majors.

TPA 3061 AS-THEA 3(2,2)
Scene Design II: PR: TPA 3060. Restricted to B.F.A. technical Theatre/design majors or Departmental consent. Continuation of TPA 3061. An intensive, practical scenic design course dealing with various theatrical styles, genres, multiple and simultaneous settings. Includes script analysis and project design work with an emphasis on visualization of design concepts through models and scenic renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3077 AS-THEA 2(2,2)
Scene Painting: PR: TPA 2211. Restricted to B.F.A. technical Theatre design majors or Departmental consent. Study of the art and craft of painting for the theatre. Research into period designs and execution of examples selected from a variety of styles. Required of all B.F.A. technical theatre/ design majors.

TPA 3195 AS-THEA 3(0,30)
Theatre Studio/Tech/Design: PR: Junior standing, Theatre major or C.I. Study, analysis and execution of technical/design aspects for playscripts produced on UCF mainstage. May be repeated for credit.

TPA 3197 AS-THEA 3(0,30)
Summer Theatre Studio/Tech/Design: PR: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on the UCF mainstage. May be repeated for credit.

TPA 3216C AS-THEA 3(3,4)
Stagecraft III: PR: TPA 2211, BFA Design/tech or Stage Management major. A continuation of TPA 2211 with emphasis on special projects.

TPA 3221 AS-THEA 3(2,2)
Lighting Design: PR: TPA 2220 and TPA 3060. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with departmental consent. Continuation of Stage TPA 2220. Lecture/laboratory with emphasis on lighting design theory, style and individual lighting design projects. Required of all B.F.A. technical theatre/ design majors.

TPA 3230 AS-THEA 3(2,2)
Costume Construction: PR: TPA 2210 or TPA 2290. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with Departmental consent. Lecture/laboratory study of the basic techniques used in the drafting,

cutting, fitting, and construction of stage costumes. Required of all technical theatre/design majors.

TPA 3249 AS-THEA 2(2,2)
Advanced Makeup Techniques: PR: TPA 2248C. Restricted to B.F.A. Theatre majors or departmental consent. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks.

TPA 3250 AS-THEA 2(2,0)
CADD for Theatre: PR: Restricted to B.F.A. Theatre majors or departmental consent. Projects oriented course covering fundamental material in computer aided drafting and design and its application for Theatre. Required of all technical theatre/design majors.

TPA 3251 AS-THEA 2(2,0)
Advanced CADD for Theatre: PR: TPA 3250. Restricted to B.F.A. Theatre majors or Departmental consent. Continuation of TPA 3250 with special emphasis placed on 3-Dimensional aspects and applications of computer aided drafting and design for Theatre.

TPA 3260 AS-THEA 3(3,0)
Sound Design For the Theatre: PR: THE 2020 or THE 2000, TPA 2211. Restricted to Theatre majors or departmental consent. Exploration of the aesthetic and technological aspects of sound as they relate to the art and craft of theatre majors.

TPA 3401 AS-THEA 3(3,0)
Theatre Careers for Tech/Management: PR: B.F.A. Theatre majors, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry.

TPA 3601 AS-THEA 3(3,0)
Stage Management: PR: TPP 2110, TPP 3650, TPA 2210, TPA 2211. Restricted to Theatre majors or departmental consent. Examination of the importance, function, and responsibilities of the stage manager prior to, during and after performance. Introduction to the fundamentals of stage management as related to Departmental productions as well as professional union requirements. Required of all B.F.A. Stage Management majors.

TPA 4041C AS-THEA 3(2,2)
Costume Design II: PR: TPA 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theatrical play productions.

TPA 4293 AS-THEA 1(0,20)
Theatre Production/Performance III: PR: TPA 2291. Restricted to Theatre majors or departmental consent. Participation in UCF Theatre Productions. Required of all B.F.A. Technical Theatre/Design majors.

TPA 4294 AS-THEA 1(0,20)
Theatre Production/Performance IV: PR: TPA 4293. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

TPA 4295 AS-THEA 1(0,20)
Theatre Production/Performance V: PR: TPA 4294. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

TPA 4296 AS-THEA 1(0,20)
Theatre Production/Performance VI: PR: TPA 4295. Restricted to Theatre majors or departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/Tech and Stage Management majors.

TPA 4297 AS-THEA 1(0,20)
Theatre Production/Performance VII: PR: TPA 4296, Restricted to Theatre majors or departmental

consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/Tech and Stage Management majors.

TPA 4298 AS-THEA 1(0,20)
Theatre Production/Performance VIII: PR: TPA 4297, Restricted to Theatre majors or departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/Tech and Stage Management Theatre majors.

TPA 4400 AS-THEA 3(3,0)
Theatre Management: PR: TPA 2211, TPA 2290. 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.

TPA 4602 AS-THEA 2(3,0)
Advanced Stage Management: PR: TPA 3601, B.F.A. Stage Management major. Skills necessary for stage managers in contemporary entertainment.

TPA 4940 AS-THEA 6(0,40)
Technical Theatre/Design Internship: PR: Restricted to B.F.A. Technical Theatre/design and Stage Management majors. The internship is subject to Departmental approval. Off-campus internship programs provide opportunity for practical work in professional theatre. Contact the Departmental office for specific requirements.

TPA 5042C AS-THEA 3(3,0)
Costume Design Studio: PR: Admission into the graduate program & Costume History I & II. (no # assigned). Project oriented course in the advance study of Costume Design

TPA 5062C AS-THEA 3(2,2)
Scene Design Studio: PR: Admission into graduate program. Advanced work in the conceptualization and communication of scenic designs for the theatre

TPA 5258C AS-THEA 3(2,2)
AutoCad-2D for Theatre: PR: Admission into the MFA Design Program. Two-Dimensional computer drafting and editing techniques applicable to theatre design.

TPA 5299C AS-THEA 3(2,2)
AutoCad-3D for Theatre: PR: Admission into the graduate program & AutoCad-2D for Theatre (no #assigned). Three-dimensional computer drafting and editing techniques applicable for theatre design.

TPA 5405 AS-THEA 3(3,0)
Theatre Management for Non-Majors: PR: THE 2020 Theatre Survey or THE 2000 survey 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.

TPA 5946C AS-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

TPA 5949C AS-THEA 1(0,20)
Design Practicum II: PR: Admission into the graduate program and Design Practicum I (no # assigned yet). Advanced work in the practical application of Properties and/or Design for the Theatre

TPP 1312C AS-THEA 3(2,15)
Workshop Studio Theatre: PR: TPP 3172C, TPP 2191, TPP 3310C, TPA 3601, and a grade of "A" in TPP 4311. Restricted to Theatre majors or departmental consent. Exploring the various aspects of mounting a one-act play, including play analysis, research, staging techniques, and other areas of directing for advanced directors. May be repeated for

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credit.

TPP 2110 AS-THEA 3(3,0)

Acting I - Introduction: PR: B.F.A. theatre major. CR: TPP 3650, DAA 2200C, THE 2020 or THE 2000, TPP 2170C or MUT 1004. The fundamentals of acting with emphasis upon the development of imagination, self-awareness, and the ability to execute basic stage tasks.

TPP 2170C AS-THEA 3(2,2)

Acting II - Fundamentals: PR: TPP 2110, DAA 2200C, TPP 3650, THE 2020 or THE 2000, TPP 2710C or MUT 1004, B.F.A. Theatre Performance/Musical Theatre major. The basic techniques of acting, with emphasis on characterization and character development.

TPP 2185 AS-THEA 3(3,0)

Acting for Non-majors: Basic introduction to the fundamentals of acting with emphasis upon the development of imagination, self-awareness, sense, memory, improvisation, and the ability to execute basic stage tasks.

TPP 2190 AS-THEA 1(0,20)

Theatre Production/Performance I: PR: Not restricted to Theatre majors but requires departmental consent. Participation in UCF Theatre Productions. Required of all B.F.A. theatre performance majors.

TPP 2191 AS-THEA 1(0,20)

Theatre Production/Performance II: PR: TPP 2190. Not restricted to Theatre majors but requires departmental consent. Participation in UCF Theatre Productions. Required of all B.F.A. theatre performance majors.

TPP 2260 AS-FILM 3(3,0)

Acting for Film: PR: Film Majors. An introduction to acting for the camera.

TPP 2710C AS-THEA 2(2,1)

Voice Production I: PR: or CR: THE 2020, TPP 2110, DAA 2200C, TPP 3650, BFA performance major. The principles and practice of the effective speaking or stage voice.

TPP 3172C AS-THEA 3(2,2)

Acting III - Characterization: PR: TPP 2170C, DAA 2201C, THE 2020 or THE 2000, TPP 3650, TPP 3711C or TPP 3257, or B.F.A. Theatre Performance majors. Advanced work in characterization, character development, and basic audition processes.

TPP 3192 AS-THEA 1(0,20)

Theatre Production/Performance III: PR: TPP 2191. Not restricted to Theatre majors but requires departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Theatre performance majors.

TPP 3197 AS-THEA 3(0,30)

Summer Theatre/Performance: PR: Open to non-Theatre majors with departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on the UCF mainstage. May be repeated for credit.

TPP 3223 AS-THEA 3(3,0)

Theatre Careers for Performance: PR: B.F.A. Theatre major, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry

TPP 3241 AS-THEA 3(3,0)

Survey of Musical Theatre I: PR: Theatre majors or departmental consent, TPP 3650, THE 2020 or THE 2000, THE 3110, TPP 3257. The origin and development of musical theatre up to and including the work of Frank Loesser.

TPP 3250 AS-THEA 3(3,0)

Musical Theatre Acting/Performance I: PR: B.F.A. Theatre major, DAA 3172C, TPP 3172C, TPP 3258.

Practical acting technique for the performance of musical theatre repertoire with the interpretation of text and music.

TPP 3252 AS-THEA 3(3,0)

Musical Theatre Acting Performance II: PR: Theatre majors or departmental consent, TPP 3250, TPP 3257. Continuation of acting techniques for the performance of musical theatre repertoire. Covers Rogers and Hammerstein through Bock and Harnick.

TPP 3257 AS-THEA 2(2,2)

Musical Theatre Voice I: PR: TPP 2710C or CR: TPP 2710C. The vocal technique and repertoire knowledge necessary for a career on the musical theatre stage, emphasizing breath control, diction, tone production, the stage belt voice and proper resonance. May be repeated for credit.

TPP 3258 AS-THEA 2(2,2)

Musical Theatre Voice II: PR: TPP 3257. Provides theatre students with the vocal technique and knowledge of repertoire necessary for a career on the musical theatre stage. May be repeated for credit.

TPP 3310C AS-THEA 3(2,2)

Directing I: PR: THE 3111, THE 3306, Junior standing, Theatre major. Principles and techniques of play direction to include script selection, directorial analysis, casting, composition/picturization, blocking, tempo, and rehearsal planning.

TPP 3510C AS-THEA 2(2,1)

Movement for the Actor: PR: DAA 2200C, DAA 2201C, TPP 2110, TPP 2170C, BFA Performance Major. Active physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body.

TPP 3512C AS-THEA 2(2,1)

Stage Combat: PR: TPP 3172C, THE 3110, DAA 2570C, BFA performance/musical theatre major. Stage combat with emphasis on hand-to-hand combat, sword, epee and rapier fighting.

TPP 3650 AS-THEA 3(3,0)

Script Analysis: PR: Restricted to B.F.A. Theatre majors. Exploration of dramatic form and structure by learning to read, analyze, and understand playscripts for productions. The study of the playscript as a blueprint for production. Required of all B.F.A. Theatre majors.

TPP 3711C AS-THEA 2(2,2)

Voice Production II: PR: TPP 2110, TPP 2710C, DAA 2200C, TPP 3650, B.F.A. performance major. Continuation of Voice Production I: correct speech on the stage, intensified study of phonetics.

TPP 3712C AS-THEA 2(2,2)

Voice Production III: PR: TPP 2170C, TPP 3711C, DAA 2201C, TPP 3650, THE 2020 or THE 2000, B.F.A. Theatre Performance major. Continuation of Voice Production II; emphasis on study of Shakespeare and heightened language.

TPP 3730C AS-THEA 2(2,2)

Voice Production IV: PR: TPP 3712C, or TPP 4142C or TPP 3258, B.F.A. Theatre Performance or Musical Theatre majors. Continuation of Voice Production III: the analysis and sounds of foreign dialects and regional accents; study of stage voice for age and character roles.

TPP 3952 AS-THEA 3(0,30)

Studio Performance: PR: Junior standing or C.I. Not restricted to Theatre majors but requires department consent. Studio performance provides the specific application of the theatre artist's training to full scale theatre productions. May be repeated for credit.

TPP 4140C AS-THEA 3(2,2)

Acting IV - Studio: PR: THE 3110, THE 3305, TPP 3172C, DAA 2200C, TPP 4142C, TPA 2210, B.F.A. Theatre Performance major. Various acting styles and plays from the classical era through post-realism.

TPP 4142C AS-THEA 3(2,2)

Acting V - Verse: PR: THE 3110, THE 3305, TPP 3172C, TPP 3712C, DAA 2570C, B.F.A. Theatre Performance major. Verse drama with particular emphasis placed on scansion and verse in the plays of William Shakespeare.

TPP 4193 AS-THEA 1(0,20)

Theatre Production/Performance IV: PR: TPP 3192. Not restricted to Theatre majors but requires Departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. theatre performance majors.

TPP 4194 AS-THEA 1(0,20)

Theatre Production/Performance V: PR: TPP 4193. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent.

TPP 4195 AS-THEA 1(0,20)

Theatre Production/Performance VI: PR: TPP 4194. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent.

TPP 4196 AS-THEA 1(0,20)

Theatre Production/Performance VII: PR: TPP 4195. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent.

TPP 4198 AS-THEA 1(0,20)

Theatre Production/Performance VIII: PR: TPP 4196. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent.

TPP 4221 AS-THEA 3(3,0)

Auditioning: PR: Sr. standing in BFA performance or musical theatre. Selecting monologues, auditioning techniques and cold readings.

TPP 4242 AS-THEA 3(3,0)

Survey of Musical Theatre II: PR: Theatre majors or departmental consent, TPP 3258, TPP 3241. A continuation of Survey of Musical Theatre I from Leonard Bernstein to current styles.

TPP 4253 AS-THEA 3(3,0)

Musical Theatre Acting Performance III: PR: Theatre majors or departmental consent, TPP 3252, TPP 3258. Advanced work in characterization and the audition process. Covers repertory from Bock and Harnick through current styles of musical theatre.

TPP 4254 AS-THEA 3(3,0)

Musical Theatre Acting Performance IV: PR: Theatre majors or departmental consent, TPP 4253. Continuation of advanced study for performance on the musical theatre stage. Emphasis placed on show preparation and the rehearsal process.

TPP 4255 AS-THEA 3(3,0)

Musical Theatre Cabaret: PR: Theatre majors or departmental consent, TPP 4254. Theatre cabaret is a training and rehearsal class for a Theatre department performing ensemble presenting full productions for community outreach performances.

TPP 4259C AS-THEA 2(2,2)

Musical Theatre Voice III: PR: Theatre majors or departmental consent, and TPP 3258. The diagnosis and development of the singing voice and its application to musical theatre performance.

TPP 4265C AS-THEA 3(3,2)

Acting VI - Acting for TV/Film: PR: TPP 4140C, TPP 4142C, TPP 4531C, TPP 3730C. Restricted to B.F.A. Theatre Performance majors. Lecture/laboratory study designed to expose the student to practical techniques of television and film acting. Extensive studio work.

TPP 4268	AS-THEA	3(3,2)	tension, and articulation	TTE 5805	ECS-CEE	3(3,0)
Acting VII Advanced Acting For TV/Film: PR: TPP 4265C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project.				Geometric Design of Transportation Systems: PR: TTE 4004. Study of geometric and construction design elements in the engineering of transportation systems.		
TPP 4311	AS-THEA	3(2,2)	TPP 5716C AS-THEA 2(2,1)	TTE 5835	ECS-CEE	3(3,0)
Advanced Directing: PR: TPP 3172C, TPP 2191, TPP 3712C, TPP 3310C (with an 'A' grade in TPP 3310C). Restricted to B.F.A. Theatre performance majors. Experience as a stage manager and directorial assistant for Departmental mainstage productions and Departmental consent. Practical experience directing Workshop Theatre production.			Stage Voice II: PR: Admission to the MFA Performance Program and Stage Voice 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.	Pavement Design: PR: CEG 4101C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy.		
TPP 4531C	AS-THEA	2(2,2)	TPP 5754 AS-THEA 2(2,0)	VIC 3001	AS-R/TV	3(3,0)
Period Movement: PR: TPP 4142C or TPP 3250, TPP 3512C or DAA 2571C, B.F.A. Performance/Musical Theatre major. Continuation of Movement/Dance work. Emphasis given to period movement styles and dance.			Musical Theatre Voice I: PR: Admission to the 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.	Visual Communication: A study of the visual system of man and the influences of the visual media on modern society.		
TPP 4923C	AS-THEA	2(2,2)	TSL 4080 ED-TLP 3(3,0)	WOH 2012	AS-HIST	3(3,0)
Musical Theatre Voice IV: PR: Theatre majors or departmental consent, TPP 4259C. Continuation of the diagnosis and development of the singing voice and its application to musical theatre performance.			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.	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.		
TPP 4940	AS-THEA	6(0,4,0)	TSL 4141 AS-LANG 3(3,0)	WOH 2012H	AS-HIST	3(3,0)
Theatre Performance Internship: PR: Restricted to B.F.A. Theatre performance majors, the internship is subject to Departmental approval. Off-campus internship programs provide opportunity for practical work in professional theatre. Contact the Departmental office for specific requirements. Required of all B.F.A. theatre performance majors.			Issues in Second Language Acquisition: PR: TSL 4080. English phonology, morphology, syntax, and semantics, for future teachers.	World Civilization I - Honors: PR: Honors Program. The rise and decline of world civilizations from antiquity to the great civilizations of medieval times. Honors content.		
TPP 5156C	AS-THEA	3(2,2)	TSL 5143 AS-LANG 3(3,0)	WOH 2022	AS-HIST	3(3,0)
Acting Studio I: PR: Admission to MFA Performance Program. An advanced scene study course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays.			ESOL Strategies: 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.	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.		
TPP 5157C	AS-THEA	3(2,2)	TSL 5245 AS-LANG 3(3,0)	WOH 2022H	AS-HIST	3(3,0)
Acting Studio II: PR: Grad Acting Studio I. An advanced scene study course applying acting methodologies to the works of modern (1850-) European playwrights with emphasis on the works of Ibsen/Chekhov/Shaw.			Developing ESOL Language and Literacy: PR: Graduate Standing or C.I. Emphasis on research in CALL as well as the design and evaluation of software and websites for learning English as a Second Language	World Civilization II - Honors: PR: Honors Program. 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.		
TPP 5273	AS-THEA	3(3,0)	TSL 5345 ED-TLP 3(3,0)	WST 3015	AS-WOM	3(3,0)
Musical Theatre Acting I: PR: Admission to MFA Musical Theatre Majors. 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.			Methods of ESOL Teaching: This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL.	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.		
TPP 5515	AS-THEA	2(2,0)	TSL 5525 ED-TLP 3(3,0)	WST 3460	AS-WOM	3(3,0)
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.			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.	Womanist Studies: PR: ENC 1102 or C.I. Focus on various disciplines producing scholarship promoting a feminist of color perspective.		
TPP 5516C	AS-THEA	2(2,1)	TSL 5940 AS-LANG 3(3,0)	WST 4002	AS-WOM	1(1,0)
Movement Studio II: PR: Grad Movement Studio 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.			Issues in TEFL: PR: CI. Address issues specifically related to TEFL, such as materials adaptation, teaching in multi-level classrooms, learning styles, cultural issues, and curriculum syllabus design.	Researching Women and Gender: PR: WST 3015 or CI. Introduces students to scholars and research in a variety of areas pertaining to the study of women and gender relations.		
TPP 5554	AS-THEA	2(2,0)	TTE 4004 ECS-CEE 4(4,0)	WST 5347	AS-WOM	3(3,0)
Musical Theatre Dance I: PR: MFA Musical Theatre Majors. Develop skills in ballet, jazz, tap and musical theatre dance related to performance, choreography and direction, emphasizing principles of alignment, coordination, isolation, and sequencing			Transportation Engineering: PR: EGN 3613 and STA 3032. Investigation of highway, rail, water, and transportation systems. Systems approach to planning, design, construction, operation and administration of transportation networks.	Research Seminar in Gender Studies: PR: graduate student or post baccalaureate status. Research seminar exploring relationships among feminist theorizing, research, and social change, the development of gender studies programs and their relationships to other academic disciplines.		
TPP 5715C	AS-THEA	2(2,1)	TTE 4601C ECS-CEE 3(2,2)	WST 5601	AS-WOM	3(3,0)
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			Urban Systems Design: PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies.	Theories in Gender Studies: PR: Graduate standing or C.I. Introduction to foundational scholarship in gender studies. Emphasis on theoretical and interdisciplinary approaches to gender and sexuality in contemporary scholarship.		

UCF Courses and Descriptions

ZOO 3733C HPA-M&M 4(3,3)
Human Anatomy: PR: BSC 2010C or equivalent.
Structure of the human body.

ZOO 3736C HPA-M&M 4(3,2)
Exercise Physiology Anatomy: PR: BSC 2010C, CI.
Gross anatomy for exercise physiology majors.

ZOO 4205C AS-BIOL 4(3,3)
Biology and Ecology of Metazoan Invertebrates:
PR: BSC 2010C, BSC 2011C, PCB 3034 or C.I.
Anatomy, ecology, taxonomy, behavior, evolution, and parasitological relations of the radiates, bilateria, acoelous, pseudocoelous, schizocoelous, and entero-coelous invertebrates.

ZOO 4310C AS-BIOL 4(2,6)
Vertebrate Evolution & Ecology: PR: BSC 2010C, BSC 2011C, PCB 3034, 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.

ZOO 4513 AS-BIOL 3(3,0)
Animal Behavior: PR: PCB 3034. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations.

ZOO 4603C AS-BIOL 5(3,4)
Embryology/Development: PR: PCB 3063 and PCB 3023 or PCB 3523 or C.I. Concepts of developmental processes. Emphasis on mechanisms underlying vertebrate development.

ZOO 4744 HPA-M&M 3(3,0)
Neurobiology: PR: BSC 2010. Biological principles governing the physiology of the nervous system

including electrical properties, chemical signaling, cellular composition, development, injury and regeneration.

ZOO 4753C HPA-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.

ZOO 5456C AS-BIOL 4(2,6)
Ichthyology: PR: ZOO 4310C or C.I. Introduction to the biology of the fishes, their classification, evolution, and life histories.

ZOO 5463C AS-BIOL 4(2,6)
Herpetology: PR: 6 hours of zoology or C.I.
Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories.

ZOO 5475C AS-BIOL 4(2,6)
Ornithology: PR: 6 hours of zoology or C.I.
Introduction to the biology of birds, their classification, evolution, and life histories.

ZOO 5486C AS-BIOL 4(2,6)
Mammalogy: PR: 6 hours of zoology or C.I.
Introduction to the biology of mammals, their classification, evolution, and life histories.

ZOO 5517 AS-BIOL 1(1,0)
Methods for Studying Animal Behavior in Zoo Setting: PR: an animal behavior course or C.I.
Research techniques used to study animals in captivity.

ZOO 5745C HPA-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.

ZOO 5815 AS-BIOL 4(4,0)
Zoogeography: PR: 8 hours of zoology or C.I.
Principles and concepts concerning regional patterns of animal distributions of the world, both past and present.

ZOO 5881C AS-BIOL 4(3,4)
Fisheries Management: PR: ZOO 4310C or C.I.
Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates.

ZOO 5891 AS-BIOL 1(1,0)
Applied Conservation Biology: PR: C.I.
Examination of issues surrounding care, maintenance and tracking animals in small populations.

ZOO 5893L AS-BIOL 1(1,0)
Reproductive Management in Zoological Environments: PR: PCB 4732 or C.I. Laboratory techniques used to improve reproductive success of animals in a zoological environment.

University Faculty and Administrative Officers

The date indicates the first year of employment at the University of Central Florida.

ABBAS, HADI, Instructor of Art (1995), B.F.A., M.F.A. (Wichita State University)
ABDEL-ATY, MOHAMED, Associate Professor of Engineering (1995), B.S.C.E., M.S.C.E., Ph.D., P.E. (Florida) (University of California at Davis)
ABEL, EILEEN M., Associate Professor of Social Work and Coordinator, Public Affairs Doctoral Program (1978), A.B., M.S.W., Ph.D., (Case Western Reserve University)
ABNEY, BARBARA COMPTON, Assistant Director, Marketing/Communications (1997), BS in Journalism (University of Florida)
ABRAHAM, CHARLIE, Assistant Professor of Art (1996), B.F.A., M.F.A. (University of Mississippi)
ACIERNO, LOUIS J., Professor of Health Sciences (Cardiopulmonary Science) (1979), B.S., M.D. (Georgetown University)
ADAMS, CAROLE, Associate Professor of History (1993), B.A., M.A., Ph.D. (Harvard University)
ADAMS, SEAN, Assistant Professor of History (1999), B.A., M.A., Ph.D. (University of Wisconsin)
AHMAD, IBRAHIM A., Chair and Professor of Statistics (1999), B.S., M.S., Ph.D. (Florida State University)
AJAYI, RICHARD A., Associate Professor of Finance (1996), B.Sc., M.B.A., Ph.D. (Temple University)
AL-DEEK, HAITHAM M., Associate Professor of Engineering (1992), B.C.E., M.S., Ph.D. (University of California at Berkeley), P.E. (Florida)
ALBERS, JUNIE, Instructor of Education (2001), B.A., M.A. (University of Central Florida)
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)
ALLEN, WILLIAM, Lecturer of Computer Science (1996), B.S., M.S. (University of Central Florida)
ALMEIDA, JOHN A., Assistant Professor of Music (1997), B.M., M.A. (Appalachian State University)
ALVAREZ, RODNEY, Assistant Professor of History (2000), B.A., M.A., Ph.D. (University of California, Los Angeles)
AMBROSE, MAUREEN L., Professor of Management (1999), B.A., M.A., Ph.D. (University of Illinois at Urbana-Champaign)
AN, LINAN, Assistant Professor of Engineering (2001), Ph.D. (Lehigh University)
ANDERSON, ELLEN PATTON, Assistant University Librarian (1995), B.F.A., M.F.A., M.A.L.I.S. (University of South Florida)
ANDREWS, JOSEPH C., Head, Collection Management Department and University Librarian (1988), B.A., M.A., M.L.S. (North Carolina Central University)
ANDREWS, LARRY C., Professor of Mathematics and Electrical and Computer Engineering (1973), B.S., M.S., Ph.D. (Michigan State University)
ANDREWS, SABRINA, Director and University Data Administrator, Institutional Research (1995), B.S., M.S. (Florida State University)
ANGELOPOULOS, THEODORE, Associate Professor of Education (1998), B.S., M.S., Ph.D. (University of Pittsburgh)
ANGLEY, PATRICIA, Instructor of English (1998), B.A., M.A., Ph.D. (University of Hawaii)
ANTHONY, JOBY M., Associate Professor of Mathematics (1970), B.S., M.A.M., Ph.D. (North Carolina State University)
ANTON, WILMA, Assistant Professor of Economics (2001), B.S., M.S., ABD (University of Illinois)
APLEGATE, BRANDON, Associate Professor of Criminal Justice (1996), Ph.D. (University of Cincinnati)
APPLEN, J. D., Assistant Professor of English (1997), B.S., M.F.A., Ph.D. (University of Arizona)
ARMACOST, ROBERT L., Interim Director of University Analysis and Planning Support and Associate Professor

of Engineering (1991), B.S., M.S.O.R., D.Sc. (The George Washington University)
ARMSTRONG, JOHN H., Associate Professor of Education (1970), B.S., M.S., Ed.D. (Oklahoma State University)
ARMSTRONG, LEE H., Professor of Mathematics (1968), B.A., M.S., Ph.D. (Florida State University)
ARNAUD, ANKE, Instructor of Management (1995), B.A., M.B.A. (University of Central Florida)
ASHLEY, ROBERT A., Assistant Professor of Hospitality Management (1984), B.S., M.S. (Florida International University, C.E.C., C.C.E.)
ATKINSON, STANLEY M., Associate Professor of Finance (1981), B.B.A. M.B.A., D.B.A. (Mississippi State University)
ATWELL, RONALD H., Director of Assessment and Planning (1984), B.A., M.A., Ed.D. (University of Central Florida)
BAGLEY, GEORGE M., Assistant Professor of Communication (1994), B.A., M.A. (University of Utah)
BAILEY, CHARLES D., Professor of Accounting (1991), B.B.A., M.B.A., M.P.A., Ph.D. (Georgia State University)
BAILEY, LYNNE, Visiting Instructor of Education (2001), B.S., M.S.Ed., Ed.D. (University of Central Florida)
BAKER, BARRY B., Director of University Libraries (1997), B.A., M.L.S. (Louisiana State University)
BAKER, JOSIAH R., Instructor of Economics (2001), B.A., M.A., M.A.A.E. (University of Central Florida)
BALADO, CARL, Associate Professor of Education (1987), B.A., M.S., M.Ed., Ed.D. (Florida Atlantic University)
BALANOFF, JANET P., Director, Equal Opportunity and Affirmative Action Programs (1980), B.S.J., M.S.P.A., (The Florida State University)
BALLANTYNE, JOHN, Associate Professor of Chemistry/ Forensic Science (1998), B.S., M.S., Ph.D. (State University of New York at Stony Brook)
BANDY, DALTON D., Chairholder, C.G. Avery Professorship, and Professor of Accounting (1985), B.S., M.B.A., Ph.D. (University of Texas at Austin)
BANKS, DIANE, Assistant Professor of Art (2000), B.F.A., M.F.A. (Syracuse)
BARAJAS, HECTOR SSG, Administration Sergeant A.S. (Cameron University)
BARBERET, JOHN, Assistant Professor of Foreign Languages and Literatures (2000), B.A., Ph.D. (University of Michigan)
BARFIELD II, RUFUS, Assistant Professor of Communication (1998), B.A., M.A., Ph.D. (Howard University)
BARLOW, NADINE G., Assistant Professor of Physics (1996), B.S., Ph.D. (University of Arizona)
BARNES, BETH, Vice President and Chief of Staff, Office of the President, and Associate Professor of English (1968), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)
BARNICKEL, AMY, Senior Executive Assistant to the President (1994), B.A., M.A. (University of Central Florida)
BARRINGER, BRUCE, Associate Professor of Management (1995), B.S., M.B.A., Ph.D. (University of Missouri-Columbia)
BARSCH, KARL-HEINRICH, Associate Professor of Foreign Languages and Literatures (1977), B.A., M.A., Ph.D. (University of Colorado)
BARTKEVICIUS, JOCELYN, Associate Professor of English (1994), B.A., M.A., M.F.A., Ph.D. (University of Iowa)
BARTLING, HUGH, Assistant Professor of Political Science (2000), B.A., M.A., Ph.D. (University of Kentucky)
BASCO, BUENAVENTURA B., Assistant University Librarian (1998), B.S.I.E., M.B.A., M.A.L.I.S. (University of South Florida)
BASS, MICHAEL, Professor of Optics (1988), B.S., M.S., Ph.D. (University of Michigan)

BASSIOUNI, MOSTAFA, Professor of Computer Science (1981), B.S., M.S., Ph.D. (Pennsylvania State University)
BAST, CAROL M., Associate Professor of Legal Studies (1992), B.A., M.A., J.D. (New York Law School)
BATARSEH, ISSA E., Associate Dean and Professor of Engineering (1991), B.S., M.S., Ph.D. (University of Illinois at Chicago), P.E. (Florida)
BAUER, CHRISTIAN S., JR., Program Director and Professor of Engineering (1970), B.S.I.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)
BAUMBACH, DONNA J., Professor of Education (1978), B.S., M.S., Ed.D. (Indiana University)
BAYER, CYNTHIA A., Research Assistant, Professor (1996), B.S., Ph.D. (Syracuse University)
BECKER, DEBRA, Visiting Assistant Professor of Education (2001), B.A., M.S.Ed., Ed.D. (University of Central Florida)
BECKER, LYNN, Instructor of Management (1996), B.S., M.B.A. (University of Central Florida)
BEILE, PENNY M., Head Curriculum Materials Center and Assistant University Librarian (1998), B.A., M.Ed., M.S.L.S. (University of Kentucky)
BEILER, ROSALIND J., Associate Professor of History and Graduate Program Coordinator (1994), B.A., Ph.D. (University of Pennsylvania)
BELFIELD, KEVIN D., Associate Professor of Chemistry (1998), B.S., Ph.D. (Syracuse University)
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December, 1969	Kurt H. Debus, Doctor of Engineering Science William H. Dial, Doctor of Commercial Science		John D. Holloway, Doctor of Public Service Wolfgang-Detlef Petri, Doctor of Commercial Science
June, 1970	John W. Young, Doctor of Applied Sciences	May, 1989	Frank M. Hubbard, Doctor of Public Service
March, 1973	Louis C. Murray, Doctor of Public Service		David Albertson, Doctor of Humane Letters
August, 1974	Fred C. Clayton, Doctor of Professional Engineering		William S. Jenkins, Doctor of Humane Letters
August, 1978	Richard F. Livingston, Doctor of Business Administration		James C. Robinson, Doctor of Public Service
June, 1979	Albert F. Hegenberger, Doctor of Engineering Science Lee R. Scherer, Doctor of Engineering Science	May, 1990	Charles N. Millican, Doctor of Laws Helen Harris Perlman, Doctor of Humane Letters
December, 1979	Joseph Daniel Duffey, Doctor of Humane Letters		Thaddeus Seymour, Doctor of Letters
June, 1980	Thelma Vivian Jackson Dudley, Doctor of Humanities Howard Phillips, Doctor of Public Service	May, 1991	Roald Hoffman, Doctor of Science
December, 1981	Gene Burns, Master of Letters	May, 1992	Robert Bryan, Doctor of Humane Letters
April, 1982	Robert J. Whalen, Doctor of Engineering Science Andrew Duda, Jr., Doctor of Agricultural Service Ferdinand Duda, Doctor of Agricultural Service John Duda, Doctor of Agricultural Service	May, 1993	Buell G. Duncan, Jr., Doctor of Commercial Science
July, 1982	Mary Jo Davis, Doctor of Public Service William E. Davis, Doctor of Public Service	May, 1995	Norman R. Augustine, Doctor of Engineering Science
December, 1982	Joseph A. Boyd, Doctor of Engineering Science	December, 1995	Jesse Stone, Doctor of Humane Letters
July, 1983	J.W. Hubler, Doctor of Engineering Science Charles Wadsworth, Doctor of Public Service	April, 1996	Nicolaas Bloembergen, Doctor of Science
December, 1984	Allen E. Gotieb, Doctor of Laws	December, 1996	Richard A. Nunis, Doctor of Public Service
May, 1985	George J. Becker, Jr., Doctor of Public Service Jerry Collins, Doctor of Public Service D. Robert Graham, Doctor of Public Service Walter O. Lowrie, Doctor of Engineering Science William C. Schwartz, Doctor of Engineering Science	May, 1997	Maxwell C. King, Doctor of Public Service Joe R. Lee, Doctor of Commercial Science
March, 1986	Isaac Bashevis Singer, Doctor of Letters	August, 1998	Trevor Colbourn, Doctor of Humane Letters
October, 1988	Elie Wiesel, Doctor of Letters	December, 1998	Linda W. Chapin, Doctor of Public Service
December, 1988	Sven Caspersen, Doctor of Engineering Science	December, 1999	Desmond Tutu, Doctor of Humane Letters Oscar Arias, Doctor of Humane Letters Reubin O'D Askew, Doctor of Public Service Lotfi Zadeh, Doctor of Science Richard M. Karp, Doctor of Science Joseph T. Traub, Doctor of Science LeRoy T. Walker, Sr., Doctor of Public Service James Bacchus, Doctor of Public Service Nancy Burnett, Doctor of Commercial Science Albert Burnett, Doctor of Commercial Science

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