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Accent on the Individual
Accent on Excellence

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University of Central Florida
PO Box 160111
Orlando, FL 32816-0111
(407) 823-3000

University Operator
(407) 823-2000

http://www.ucf.edu

Financial Assistance Office
University of Central Florida
Orlando, FL 32816-0113
(407) 823-2827

Housing Office
University of Central Florida
PO Box 163222
Orlando, FL 32816-3222
(407) 823-4663

May 1998
Volume 31, Number 1

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

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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 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 Administration 330, Orlando, Florida 32816-0030. The phone number is (407) UCF-1EEO. Policies and guidelines are available on the World Wide Web at http://pegasus.cc.ucf.edu/~eoo/home.htm/

Drug-Free Workplace/Drug-Free Schools Policy Statement

The University of Central Florida, in accordance with legislation passed by the federal government as part of the war on drugs program, has adopted the policy statement DRUG-FREE WORKPLACE/DRUG-FREE SCHOOLS. Information regarding this policy may be obtained in the Office of Personnel Services (AD 230) or the Division of Student Affairs (AD 282).

University Police Information and Reports

In compliance with the Florida Public Records Law (Chapter 119) and the Federal Crime Awareness and Security Act of 1990 (Right to Know Law), the University of Central Florida Police Reports are available upon request. For more information about the UCF Public Safety and Police Department, visit their web site: http://pegasus.cc.ucf.edu/~ucfpd. University of Central Florida, PO Box 163550, Orlando FL 32816-3555. General business and information number (407) 823-5555.
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Associate Vice President for Administration and Research
Assistant Vice President and Director, Student Information &
Evening/Weekend Student Services
Associate Dean of Students
Director, Creative School for Children
Director, Counseling and Testing Center
Director, Housing and Residence Life
Director, International Student Services
Director, Recreational Services
Director, Student Union
Interim Director, Student Health Services
Director, Career Resource Center
Director, Veterans' Affairs
Director, Student Activities
Director, Student Disability Services
Director, Student Legal Services
Director, Student Orientation
Director, Daytona Beach Campus
Director, Brevard Campus

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TBA
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E. Garth Jenkins
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Alumni Relations
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Associate Dean
Associate Dean
Associate Dean
Assistant Dean
Assistant Dean
Director, Liberal Studies Program
Director, OASIS
Director, School of Communication
Acting Chair, Art
Chair, Biology
Chair, Chemistry
Director, School of Computer Science
Chair, English
Chair, Foreign Languages and Literatures
Chair, History
Chair, Mathematics
Acting Chair, Music
Chair, Philosophy
Interim Chair, Physics
Chair, Political Science
Chair, Psychology
Chair, Sociology and Anthropology
Acting Chair, Statistics
Chair, Theatre

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Ben B. Morgan, Jr.
Haven C. Sweet
Bruce A. Whisler
Shirley Leckie
Lyman Brodie
Donald E. Jones
Judith P. Boyte
Milan D. Meeske
Joyce Lilie
David H. Vickers
Glenn N. Cunningham
Terry J. Frederick
Dawn Trouard
Jose B. Fernandez
Richard C. Crepeau
John R. Cannon
Lee Eubank
John S. Riser
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John M. McGuire
Harold J. Corzine
David Nickerson
Donald W. Seay
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Interim Associate Dean
Associate Dean, Undergraduate Programs
Director, Center for Executive Development
Director, School of Accounting
Chair, Economics
Chair, Finance
Chair, Hospitality Management
Interim Chair, Management
Chair, Marketing
Director, Student Support

Dean
Associate Dean, Undergraduate Programs
Director, Center for Executive Development
Director, School of Accounting
Chair, Economics
Chair, Finance
Chair, Hospitality Management
Interim Chair, Management
Chair, Marketing
Director, Student Support

College of Education

Dean
Associate Dean for Academic Affairs
Associate Dean for Research & Graduate Studies
Assistant Dean for Undergraduate Programs and Clinical Experiences
Chair, Educational Services
Chair, Educational Foundations
Chair, Instructional Programs
Chair, Exceptional and Physical Education
Director of Development
Director of Academic Support
Director, Student Services
Director, Minority Programs

Dean
Associate Dean for Academic Affairs
Associate Dean for Research & Graduate Studies
Assistant Dean for Undergraduate Programs and Clinical Experiences
Chair, Educational Services
Chair, Educational Foundations
Chair, Instructional Programs
Chair, Exceptional and Physical Education
Director of Development
Director of Academic Support
Director, Student Services
Director, Minority Programs

College of Engineering

Dean
Associate Dean for Graduate Affairs and Research
Associate Dean for Academic Affairs
Director of Graduate Affairs
Director of Undergraduate Affairs
Director of External Resources
Director of External Relations
Chair, Civil and Environmental Engineering
Chair, Electrical and Computer Engineering
Chair, Industrial Engineering and Management Systems
Chair, Mechanical, Materials and Aerospace Engineering
Chair, Engineering Technology
Chair, Aerospace Studies (AFROTC)
Chair, Army ROTC

Dean
Associate Dean for Graduate Affairs and Research
Associate Dean for Academic Affairs
Director of Graduate Affairs
Director of Undergraduate Affairs
Director of External Resources
Director of External Relations
Chair, Civil and Environmental Engineering
Chair, Electrical and Computer Engineering
Chair, Industrial Engineering and Management Systems
Chair, Mechanical, Materials and Aerospace Engineering
Chair, Engineering Technology
Chair, Aerospace Studies (AFROTC)
Chair, Army ROTC

College of Health and Public Affairs

Dean
Associate Dean, Administration and Research
Assistant Dean, Academic and Student Affairs
Chair, Communicative Disorders
Chair, Criminal Justice and Legal Studies
Chair, Health Professions and Physical Therapy
Chair, Molecular Biology and Microbiology
Director, School of Nursing
Chair, Public Administration
Director, School of Social Work
Director of Student Support
Advisement Coordinator

Dean
Associate Dean, Administration and Research
Assistant Dean, Academic and Student Affairs
Chair, Communicative Disorders
Chair, Criminal Justice and Legal Studies
Chair, Health Professions and Physical Therapy
Chair, Molecular Biology and Microbiology
Director, School of Nursing
Chair, Public Administration
Director, School of Social Work
Director of Student Support
Advisement Coordinator
DIRECTIONS TO UCF CAMPUS

From Orlando International Airport: (20 miles)
Go east on 528 to 417 north. Take 417 north (Toll Road) to University Blvd. Exit east onto University Blvd. to UCF.

From Orlando Sanford Airport: (20 miles)
Lake Mary Blvd to 417 south (Toll Road). Go to University Blvd. Turn left onto University Blvd. continuing east to UCF.

From Daytona Beach on I-4:
Exit 48 onto Route 434 east. Go through Longwood, Winter Springs, and Oviedo on 434 to UCF.

From Tampa on I-4:
Exit 28 onto east 528 (Toll Road). Go past Orlando International Airport to 417 north. Take 417 north (Toll Road) to University Blvd. Exit east onto University Blvd. to UCF.

From South on Florida Turnpike:
Exit 254 (Orlando South - 441). Take first right onto east 528 (Toll Road). Go east past Orlando International Airport to 417. Take 417 north (Toll Road) to University Blvd. Exit east onto University Blvd. to UCF.

From North on Florida Turnpike:
Exit 265 onto east 408 (Toll Road). Go east through Orlando to merge with 417. Take 417 north to University Blvd. Exit east onto University Blvd. to UCF.

From Titusville (East Coast):
Hwy. 50 west past 408 overpass to 434. Turn right to UCF (2 miles).

From Melbourne:
I-95 to 520 to Hwy. 50 west to right on 434 or I-95 to 528 west (toll) to 417 north to University Blvd. Exit east to UCF.

Reader comments and suggestions for improving the usefulness of this catalog may be sent to: Catalog, UCF Registrar’s Office, PO Box 160114, Orlando, FL 32816-0114.
# ACADEMIC CALENDAR 1998-99

(See 1998-1999 calendars on page 11)

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<thead>
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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.

*Incomplete grades must be removed within twelve months of the last day of the semester or prior to graduation from the university, whichever comes first. Refer to the incomplete policy for details.

**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. Refer to the paragraph Religious Observances in the Academic Policies and Procedures section of this catalog. For additional information contact the Office of Diversity Initiatives, AD 329, Phone: (407) 823-6479.

## TESTS

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## UNIVERSITY HOLIDAYS & SPECIAL DATES

<p>| | |</p>
<table>
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<tbody>
<tr>
<td>Labor Day Holiday</td>
<td>September 7</td>
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<tr>
<td>Homecoming Week</td>
<td>November 9-14</td>
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<tr>
<td>Veteran's Day</td>
<td>November 11</td>
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<td>Thanksgiving</td>
<td>November 26-28</td>
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<tr>
<td>Martin Luther King, Jr. Day.</td>
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<tr>
<td>Spring Break</td>
<td>January 18</td>
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<tr>
<td>Founders' Day Honors Convocation (classes canceled 10:30-12:30)</td>
<td>March 15-20</td>
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NOTE: Dates subject to change. Consult the schedule of classes and on-line academic calendar (www.ucf.edu) for early registration dates and updated information.
## ACADEMIC CALENDAR 1998-99
(See 1998-1999 calendars on page 11)

### SUMMER TERMS 1999

<table>
<thead>
<tr>
<th>Event/Deadline/Information</th>
<th>TERM &quot;A&quot;</th>
<th>TERM &quot;B&quot;</th>
<th>TERM &quot;C&quot;</th>
<th>TERM &quot;D&quot;</th>
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<tr>
<td>Application deadline for international students</td>
<td>December 1</td>
<td>April 15</td>
<td>April 15</td>
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<tr>
<td>Application deadline for all undergraduate applicants, transfers, and readmissions</td>
<td>December 1</td>
<td>April 15</td>
<td>April 15</td>
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<tr>
<td>Graduation Application due in college advising office</td>
<td>May 10 (1 p.m.)</td>
<td>June 21 (1 p.m.)</td>
<td>May 10 (1 p.m.)</td>
<td>May 10 (1 p.m.)</td>
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<tr>
<td>Residence halls open</td>
<td>May 10</td>
<td>June 22</td>
<td>May 10</td>
<td>May 10</td>
</tr>
<tr>
<td>Regular registration (by appointment)</td>
<td>May 11</td>
<td>June 23</td>
<td>May 11</td>
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<tr>
<td>Classes begin</td>
<td>May 13-14</td>
<td>June 24-25</td>
<td>May 13-14</td>
<td>May 13-14</td>
</tr>
<tr>
<td>Late registration, add/drop</td>
<td>May 14</td>
<td>June 25</td>
<td>May 14</td>
<td>May 14</td>
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<tr>
<td>Last day to submit Grade Forgiveness Request</td>
<td>May 14</td>
<td>June 25</td>
<td>May 14</td>
<td>May 14</td>
</tr>
<tr>
<td>Fees due; Last day for full refund</td>
<td>May 28</td>
<td>July 9</td>
<td>June 18</td>
<td>June 4</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>June 22</td>
<td>August 3</td>
<td>August 3</td>
<td>July 12</td>
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<tr>
<td>Classes end; Last day to remove incomplete*</td>
<td>June 23 (9 a.m.)</td>
<td>August 8 (noon)</td>
<td>August 8 (noon)</td>
<td>July 13 (noon)</td>
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<tr>
<td>Final Examination Period**</td>
<td>June 25 (noon)</td>
<td>August 5 (noon)</td>
<td>August 5 (noon)</td>
<td>July 14 (noon)</td>
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<td>Residence halls close</td>
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<td>August 7</td>
<td>August 7</td>
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<td>Grades due in Registrar's Office</td>
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<td>Commencement</td>
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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.

*Incomplete grades must be removed within twelve months of the last day of the semester or prior to graduation from the university, whichever comes first. Refer to the incomplete policy for details.

**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. Refer to the paragraph Religious Observances in the Academic Policies and Procedures section of this catalog. For additional information contact the Office of Diversity Initiatives, AD 329. Phone: (407) 823-6479.

### TESTS

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<td>FTCE</td>
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### UNIVERSITY HOLIDAYS

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NOTE: Dates subject to change. Consult the schedule of classes and on-line academic calendar (www.ucf.edu) for early registration dates and updated information.
<table>
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<tr>
<th>CAMPUS OFFICE/SERVICE</th>
<th>LOCATION</th>
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<tr>
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<td>Phillips Hall, (PH) 202</td>
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<td>Portable Classroom, (PC) 1-102</td>
<td>3-5130</td>
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<td>ACADEMIC STATUS</td>
<td>Registrar (AD) 161; Academic Advisor</td>
<td>3-3100</td>
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<td>ADDRESS CHANGE</td>
<td>College Advising Office or Any Kiosk</td>
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<td>Development and Retention (AD) 210</td>
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<td>Credit Union, Students Services</td>
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<td>Center for Distributed Learning, Research Pavilion 264</td>
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MISSION STATEMENT

UCF is a growing metropolitan university with the responsibility to deliver a comprehensive program of teaching, research, and service. Its primary mission is to provide intellectual leadership through quality undergraduate and graduate programs.

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 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.

Service to its community is an important extension of the teaching and research 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-traditional 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 to award degrees at the associate, baccalaureate, master's, and doctoral levels.

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Communicative Disorders
American Speech-Language-Hearing Association - Educational Standards Board (ASHA)
(Speech Pathology/Audiology)
American Medical Record Association (AMRA) in conjunction with CAAHEP of AMA
Health Information Management
National Accrediting Agency for Clinical Laboratory Science (NAACLS) National Accrediting Agency for Clinical Laboratory Services
Medical Laboratory Sciences
Nursing
National League for Nursing (NLN), Florida Board of Nursing
Physical Therapy
Commission on Accreditation in Physical Therapy Education (CAPTE)
Radiologic Technology
Commission on Accreditation of Allied Health Education Programs (CAAHEP of AMA)
Social Work
Council of Social Work Education (CSWE)

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.

EAST CENTRAL FLORIDA

UCF is located in East Central Florida, a region with a population of about two million. Known principally for its tourist attractions, the area is one of the fastest growing regions in the nation. East Central Florida is noted for its many lakes. Atlantic beaches are an easy hour drive from the main campus. The area offers Walt Disney World and other attractions that draw more vacationers here than anywhere else. The area also offers Broadway productions, pop and classical music headliners, art festivals, a Shakespeare festival of UCF origin, the National Basketball Association's Orlando Magic, and restaurants of every type and price.

THE ORLANDO CAMPUS

The 1,445-acre campus is located in the Orlando suburbs, 13 miles northeast of downtown. Seventy-three permanent buildings - valued at more than $262 million - radiate outward from an academic core, where UCF's colleges, classrooms and library are located. More than $34.8 million for construction of academic facilities is anticipated in the three-year period ending with 1999-2000. Projects expected to be completed or in progress during the period include a building for the College of Health and Public Affairs, a classroom building, and another engineering building. UCF recreational facilities include lighted tennis and racquetball courts, an outdoor swimming pool, golf driving range, volleyball, and basketball courts and ball fields.

UCF VIRTUAL CAMPUS

The UCF Virtual Campus offers classes that include use of the internet, e-mail, computer conferencing, chat, multimedia, videotape, and interactive two-way television. The courses are delivered through a variety of technologies, including the world wide web, interactive two-way television, videotape, and radio broadcasting.

UCF offers students convenient opportunities to take credit courses and select degree programs through a variety of interactive distributed technologies. Interactive television (ITV) courses are broadcast in real-time using two-way video and two-way audio between the main, Brevard and Daytona campuses, and the Downtown Center. ITV courses may be enhanced with multimedia delivery and may originate from any of the receive sites using a compressed video system.

Learning on-line through distributed courses allows students to participate virtually via a computer using e-mail, computer conferencing, and the World Wide Web. Traditional courses use on-line components to enhance classroom activity, while distributed on-line courses may replace some class meetings. Fully on-line courses have minimal class meetings and may involve additional media such as audio and video tapes. UCF's virtual campus brings the university to students with on-line courses and services. See: http://pegasus.cc.ucf.edu/~distrib/ for more information. Courses are listed each
semester in the Schedule of Classes. Students planning to take a course with a World Wide Web component should either be familiar with the use of the Web, or have taken CGS 1060.

CENTER FOR DISTRIBUTED LEARNING

Interim Director: Steven E. Sorg, http://pegasus.cc.ucf.edu/~distrib/edl

The Center for Distributed Learning serves as a clearinghouse for logistic processes in support of distributed learning credit courses and degree programs offered by the University. Assistance is provided in the areas of marketing, scheduling, registration, and admissions. Credit courses and programs offered by the academic colleges and facilitated by the Center adhere to the same quality standards that apply to the traditional on-campus programs. The center provides leadership for efforts to achieve accreditation for distance learning programs.

UCF AREA CAMPUSES

In addition to the academic programs offered on the Orlando campus, the University of Central Florida offers a number of upper-division programs and graduate programs at area campuses in Cocoa and Daytona Beach. Times and dates for all courses are listed in the regularly published schedule of classes. A new Downtown Academic Center serves selected educational needs of downtown Orlando residents and businesses.

UCF BREVARD AREA CAMPUS

1519 Clearlake Road
Cocoa, FL 32922

Assistant Director
Doyce E. Walter
(407) 632-1111, Ext. 65563

Campus Executive Officer/CEO
James A. Drake
(407) 632-1111, Ext. 65568

Coordinator: Admissions/Registration and Records/
Financial Aid Services
Charlene A. Stinard
(407) 632-1111, Ext 65609
The Brevard Campus of the University of Central Florida operates in partnership with the Brevard Community College District System. Although the Brevard Campus is housed primarily at the BCC Cocoa Campus, programs and courses are also delivered by UCF-Brevard faculty at the BCC Melbourne and Palm Bay campuses.

In Cocoa, the UCF Brevard Campus forms part of the “Circle of Science and Technology,” a complex of buildings encompassing the world-class BCC Planetarium, the state of the art BCC/UCF Joint-Use Library, and the laboratories and facilities of the Florida Solar Energy Center (FSEC), a UCF research division.

The UCF Brevard Campus offers upper-division (junior, senior) and graduate courses in sixteen undergraduate and eight graduate degree programs. At the Brevard Campus, BCC and UCF became the first in Florida to fully implement the 2 + 2 concept recommended by the Postsecondary Education Planning Commission (PEPC).

In a new initiative, staff from UCF and BCC have co-located in the Student Center to provide a one-stop center for undergraduate admissions, registration, records updates, cashiering, and evening child care. Students have access to a joint use computer lab, and the BCC Computer Aided Instruction Lab offers students of both schools remedial classes, writing skills assistance, and tutoring.

All five UCF colleges have faculty and administrative offices at the Brevard Campus. Telephone numbers as well as programs offered by each of the colleges are shown below:

**UNDERGRADUATE DEGREE PROGRAMS**

**College of Arts and Sciences** (407) 632-1111, Ext. 65545
- Psychology
- Liberal Studies Program
- Social Sciences

**College of Business** (407) 632-1111, Ext. 65576
- General Business Administration

**College of Education** (407) 632-1111, Ext. 65575
- Elementary Education
- Exceptional Education
- Science Education - Biology (Secondary)
College of Engineering (407) 632-1111, Ext. 65556
Electrical Engineering Technology with concentrations in Electrical Systems and Information Systems
Engineering Technology with concentration in Operations
Industrial Engineering

College of Health and Public Affairs (407) 632-1111, Ext. 65586
Communicative Disorders
Criminal Justice
Legal Studies
Nursing
Public Administration

GRADUATE PROGRAMS
Masters of Business Administration (MBA)
Masters of Communicative Disorders (MA)
Masters of Education Leadership (MEd)
Masters of Education Elementary Education (MEd)
Masters in Public Administration (MPA)
Engineering FEEDS/ITV Graduate Engineering (Courses on videotape)
The UCF Daytona Beach campus offers upper division and graduate level courses to residents of Volusia and Flagler counties. A unique educational partnership between UCF and Daytona Beach Community College allows students to earn an associate of arts degree at DBCC and a baccalaureate degree at UCF. UCF courses are taught by eighteen resident faculty, visiting Orlando faculty, and local adjuncts. Web-based courses are also offered.

UCF moved from a resident center on Clyde Morris Blvd. to a new, more expansive facility on the DBCC campus in 1987. A silicone-domed higher education building housing classrooms, labs, and office space enabled UCF to expand programs and acquire branch campus status in the Board of Regents system. A second building, completed in 1991, houses more classrooms and faculty offices as well as a 130-seat auditorium and conference center.

A broad range of services is offered for Daytona Beach students including admissions, registration, financial aid, student clubs and organizations, disability services, veterans affairs, career resources, and others. Registration periods at Daytona Beach correspond to Orlando schedules. Admissions, registration and student services offices are located in Building 34. Business hours are 8:00 AM to 6:00 PM Monday through Thursday and 8:00 AM to 4:00 PM on Friday. Hours are extended during scheduled registration periods.

The following degree programs are currently offered at the Daytona Beach campus:

UNDERGRADUATE DEGREE PROGRAMS

College of Arts and Sciences (904) 254-4412
Liberal Studies
Psychology
Social Sciences

College of Business Administration (904) 254-4412
General Business Administration
College of Education (904) 254-4428
Elementary Education
Exceptional Education

College of Engineering (904) 255-7423
Engineering (Partial/Video)

College of Health & Public Affairs (904) 254-4412
Criminal Justice
Legal Studies
Nursing (904) 254-4428

GRADUATE DEGREE PROGRAMS (904) 255-7423
Business Administration (MBA)
Criminal Justice
Educational Leadership
Elementary Education
Engineering (Video)
Exceptional Education
Health Services Administration
Public Administration
Sociology

MINORS
Business Administration
Criminal Justice
History
Legal Studies
Philosophy
Psychology
Religion
Sociology

Daytona Beach Campus Photo (by Tobey Johns)
The Downtown Academic Center is located in the heart of downtown Orlando. Situated near Orlando's Church Street Station, access to the center is easy. With four classrooms, including a 130-seat lecture hall, a multitude of credit and non-credit courses and programs are made available to UCF students as well as to the business and residential community of Orlando. The Institute of Government, housed at the center, further expands opportunities for professional development through on-going workshops and seminars. In addition, a distributed learning center features an interactive television system which connects students to courses on the main campus and to satellite conference sites. A state-of-the-art computer lab provides the latest technology to aid student learning and enhance computer literacy. Selected courses are available by video to meet the needs of students unable to attend classes offered at set times. Admissions, financial assistance and other university information is readily available.

The Downtown Center also serves as a centralized place for meetings, mini-conferences and retreats. The AT&T executive conference room and flexible classroom space create an atmosphere conducive to hosting a variety of educational activities and cultural events to promote the mission of the university.

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

The objectives of the Central Florida Research Park are in keeping with the legislative action which 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/industry community resulting in a unique approach to the creation of a more effective cooperative academic/industrial endeavor. 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 attractive
environment conducive to the location of research-oriented industry in the Park. This activity will enrich and support the academic, teaching, and research programs of the university. The university, in turn, as a community of scholars, reservoir of knowledge past and present, and creator of new knowledge and discovery, can provide the necessary expertise and human resources to enhance the research and development activities required and planned by Park residents.

Totally planned to provide a campus-like environment for business adjacent to UCF, the Central Florida Research Park consists of over 1,000 acres of land. Businesses which desire 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.

University organizations, including the Institute for Simulation and Training, are located in the Research Park. The Naval Air Warfare Center Training Systems Division, and the Army Simulation, Training, and Instrumentation Command (STRICOM), the focal point of the nation's simulation and training industry, have their headquarters in the Research Park. Over $700 million in federal contracts is granted by the Army and Navy each year.

Currently over 80 companies are located in the Research Park pursuing activities in simulation and training, lasers, optical filters, behavioral sciences, diagnostic test equipment, and oceanographic equipment. Approximately 5,500 employees currently work in the Research Park including many students and faculty.

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 the 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 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 six-year period. UCF presently has ten fully funded endowed chairs and three 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. The Chair: Dr. 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. The Chair: Dr. Narsingh Deo.

- **William and Alice 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, 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. The Chair: Dr. 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, will also serve as a critical resource for the hospitality industry.

- **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. The Chair: Dr. Stanley Smith.

- **Al Burnett-Contemporary Cars Eminent Scholar Chair in Accounting** - Created in 1989 to support an exceptional faculty member in the School of Accounting. The Chair: Dr. 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. The Chair: Dr. Angeline A. Bushy.
STUDY ABROAD PROGRAMS

The primary purpose of study abroad programs is to improve the linguistic and cultural proficiency of UCF students. Study abroad is not just for foreign language majors. UCF has programs designed to meet the general education and language requirements of all students, as well as programs designed for majors within every college. The benefits of participation in a study abroad program transcend the course content.

UCF study abroad programs are designed and administered by UCF faculty. All programs require a person with good health, emotional stability, maturity, adaptability, curiosity, and a sense of adventure. Some programs require proficiency in a foreign language, others do not. Prerequisites, length of stay, and academic requirements vary by program. UCF has summer programs in Canada (Quebec), Germany, Italy, and Spain. UCF faculty and students also participate in State University System programs in London, England, Florence, Italy, and Costa Rica. If UCF does not offer a program in the language or country of your choice, the Office of International Studies will provide information from the inventory of study abroad programs offered through the State University System of Florida. For information on these programs call (407) 823-5375.

LINKAGE INSTITUTES

The eleven Bi-national Linkage Institutes were established by the Florida Legislature to mobilize the resources of Florida universities and community colleges and integrate them with the efforts of government and business. They were created to enhance the State's competitive position in strategic foreign countries. Institutes have been created for Brazil, Canada, the Caribbean, China, Costa Rica, Eastern Europe, France, Israel, Japan, Mexico, and West Africa. These institutes are authorized to
waive up to 25 FTE of the out-of-state portion of tuition each academic year for international students from the representative countries enrolled in SUS universities and community colleges.

The University of Central Florida is home to two of these linkage institutes. For more information about the Florida-Canada Linkage Institute, call (407) 823-2629. For more information about the Eastern European Linkage Institute call (407) 823-2160. Contact the OIS for the names and numbers of the directors of programs at the other SUS universities.

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, Canadian, Judaic, Latin American and Iberian Studies, 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: Dr. Dan White, (407) 823 5076
Canadian and Commonwealth Area Studies - Contact: Dr. Elliot Vittes, (407) 823-0119
Latin American Studies - Contact: Dr. José Fernández, (407) 823-2389
Judaic Studies - Contact: Dr. Moshe Pelli, (407) 823-5059
Russian Studies - Contact: Dr. Richard Crepeau, (407) 823-2224

THE UCF ALUMNI ASSOCIATION

The University of Central Florida Alumni Association was developed to maintain awareness and support of the university by the alumni. Membership is open to all alumni and friends of the university. Membership in our Alumni Association provides many benefits, including:

- Timely information within the pages of Pegasus, UCF’s bi-monthly alumni magazine
- Career resources and placement opportunities available nationwide
- Discounts with rental car agencies, hotels, and theme parks all across the country
- Free use of several campus recreational facilities
- Invitations to events like Homecoming, as well as local and regional alumni get-togethers
- Free borrowing at UCF library (main branch)
- Special alumni rates at UCF Computer Store
- 15% discount on UCF logo items at campus Bookstore and other locations
- Members-only discounts at Association-sponsored activities
- Numerous personal and professional networking opportunities

Every dues-paying member is eligible to participate in the election of a Board of Directors for the Association and to hold an office on the Board or one of its committees. The Board guides the direction of the Association including the development of programs and annual scholarships for undergraduate and graduate students. For information, contact the UCF Alumni Relations Office, Administration 340, Phone (407) UCF-ALUM (823-2586) or toll-free, (800) 330-ALUM.

UCF FOUNDATION, INC.

The UCF Foundation, Inc. is a non-profit, tax-exempt corporation directed by a 60 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 Foundation for support of the university. Call (407) 249-4740 for additional information.

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. Adjacent to the Arena is a world-class track and field facility that hosts a variety of events including track meets, soccer games, NFL tryouts, and football clinics. For event or rental information, call (407) 823-3070.

UNIVERSITY BOOKSTORE

The University Bookstore is operated by the Barnes and Noble College Book Stores. The University Bookstore is located in the Student Services Building and is open to the public. In addition to textbooks and school supplies, this facility offers a complete line of UCF insignia clothing and gift items. For more information, please call (407) 823-2665.

INTERCOLLEGIATE ATHLETICS

Programs in Intercollegiate Athletics are coordinated by athletic 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 and competes in the Trans
America Athletic Conference. Intercollegiate athletic 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, crew, cross-country, golf, soccer, track, tennis, and volleyball.

**THE ORLANDO-UCF SHAKESPEARE FESTIVAL**

The Orlando-UCF Shakespeare Festival is Central Florida's premiere classical theater, presenting professional artists in a variety of world-class plays. The Festival's year-round calendar of entertainment and educational events culminates in a dynamic spring season at the Walt Disney Amphitheater in Lake Eola Park.

In its ninth 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 affiliated activities are *The Young Company*: a classical multi-ethnic acting company composed of talented Central Florida secondary students from diverse economic backgrounds, *Shakespeare Alive!*, a performance-based education program with teacher workshops, study guides, a one-day residency at every Orange County high school, and student matinee performances by the Equity company; and *Shakespeareience*, a comprehensive semester long in-school residency program in partnership with Orange County Public Schools.

Internships, special topics classes, and independent studies with the Festival have involved students from film, art, English, humanities, journalism, music, education, theater and engineering. Musicians from the UCF Music Department serve as the Festival's resident musical company. Other disciplines interested in exploring formal relationships with the Festival should contact the Orlando-UCF Shakespeare Festival's Artistic Director, Jim Helsing, 30 S. Magnolia Avenue, Suite 250, Orlando, Florida 32801, (407) 245-0985.

**TRANSIT SERVICES**

Through joint efforts of UCF, LYNX and the University/Alafaya Corridor Transportation Association (UACTA), UCF students, faculty, and staff have the availability of a number of transit options.

Three bus routes serve UCF from Oviedo, Downtown Orlando, and both Valencia Community College campuses. 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 eighty-five cents per ride. Special passes are available at discounted rates.
five cents. Semester passes are also available at substantial savings and are sold at the UCF Bookstore. Route maps may be obtained at the Administration Building Information Booth or by calling UACTA at (407) 658-8492, or LYNX at (407) 841-8240.

UCF PUBLIC SAFETY AND POLICE

The UCF Police Department has 40 certified officers, and they have all completed the Florida Criminal Justice Standards and Training Commission’s requirements for a law enforcement officer (780-hour police academy). Furthermore, officers receive a minimum of four hours of monthly training for police-related subjects, such as: investigative procedures, criminal law, traffic enforcement, cultural diversity and sensitivity training, emergency first aid, etc. Emergency phone 9-1-1. Non-emergency phone 823-5555. Web site: http://pegasus.cc.ecf.edu/~ucfpd.

Patrol Division

The Patrol Division consists of three consecutive, eight-hour shifts with six police officers per shift, which provides police services 24 hours a day, seven days a week. The officers patrol the campus in marked police vehicles and unmarked surveillance vehicles. Furthermore, the three daily vehicle patrol shifts are supplemented with an additional squad of police officers on mountain bicycles. The eight police bicycle patrol officers are able to patrol the inner core of the campus where the patrol vehicle cannot access. In addition to the routine patrol duties, the officers provide police services for traffic control, parking, and security for special UCF events such as graduation ceremonies, student sponsored activities, sporting events, etc.

Investigations Division

There are three investigators who investigate the unresolved reported criminal cases. Each investigator has training and experience with crime scene investigation procedures, interview and interrogation techniques, and forensics. They also maintain a close working relationship with all local police departments to include sharing intelligence information and occasionally working jointly on cases.

Crime Prevention Unit

The Crime Prevention Unit is comprised of three subsections: 1) crime prevention officers, 2) Community-Oriented Policing (COP) officers, and 3) the Student Escort Patrol Service (SEPS).

1. The Crime Prevention Officers go out to the university community and present numerous services pertaining to various crime prevention topics, such as: campus crime statistics; personal safety tips; crime watchers program; drug and alcohol awareness; cashier’s bank robbery training; building security alarm surveys; media Public Information Officer (PIO); burglary, theft, and robbery awareness; new student, staff, and faculty orientations; Operation Identification (property engraving); building situation reports (police reports of unlocked, ajar, or propped open doors after business hours).

2. There are currently five Community-Oriented Policing (COP) officers assigned mainly to the UCF campus housing areas. The COP officers utilize police equipped mountain bicycles for easy access around the campus housing areas. These officers strive to develop mutual trust, respect, and rapport in a crime fighting "partnership" with the housing staff and residents.

3. The Student Escort Patrol Service (SEPS) has part-time student workers hired and trained by the UCF Police Department (UCFPD) to provide an escort service to anyone on campus during the evening hours (7:00 p.m. - 12:30 a.m.). The SEPS wear yellow shirts with the insignia SEPS and carry radios that are in direct communication with the police dispatchers. SEPS are also trained as "Crime Watchers." They will make radio calls to the UCFPD to report any suspicious activity. The SEPS are trained to be excellent crime deterrent because of their visibility and direct radio link to police dispatchers. For SEPS escorts call 823-2424. If the SEPS are off duty, please call 823-5555 and a police officer will be dispatched to assist you. Safe escorts on campus are offered 24 hours a day.

Victim Services Unit

Victim Services is a very important function of the UCFPD. If you or someone you care about become a victim of crime, you may need to talk with someone about what to do next. Victim Advocates are available 24 hours daily. During normal business hours (8:00 - 5:00, Mon-Fri) they can be reached by calling 823-2425 or 823-6069. In an emergency, call 9-1-1 or the UCFPD at 823-5555 and a Victim Advocate will be notified to contact you.

It is not uncommon to experience a broad range of emotions including fear, confusion, anger, guilt, frustration, and a tremendous sense of loss. The Victim Advocates will help you receive the services you may need for: 1) crisis intervention: an advocate will respond to a crime scene if needed or if directed by a law enforcement officer; 2) emotional support and practical assistance: the advocates
can help you understand what can be expected during an investigation or the prosecution process by the criminal and/or university judicial systems; 3) information and referral: the advocates maintain a current listing of social service agencies on and off campus that can assist with many different needs such as counseling, legal aid, and emergency shelter, among others; and 4) educational services: speakers are available for presentations on various subjects, such as victimization, sexual assault, domestic and relationship violence, etc.

Communications Division

The Communications Division is the heart of the UCFPD. When complaint or service calls come into the dispatchers for non-emergency police services (823-5555), they immediately take action to send police and/or medical services. The UCF campus is equipped with 9-1-1 enhanced system connected directly to the UCFPD for emergency services such as responding to a crime in progress, medical emergency, or fire.

The Blue Light 9-1-1 telephone pole system has been installed in various locations throughout the campus. If you need emergency medical assistance, or you wish to report a crime or fire, these telephones are connect directly to the UCFPD's communications center and help will be immediately dispatched.

Parking Services Division

http://pegasus.cc.edu/~parking

The Parking Services Division has the responsibility of maintaining all the parking lots and parking facilities on campus. The revenue generated by decal sales is utilized for maintenance of the existing parking lots, and provides funding for construction of new parking lots. The division of comprised of full-time UCF Career Service staff and part-time student employees.

The Parking Services Division has part-time Student Parking Patrollers (SPP). The SPP's wear UCFPD Parking Services Logo T-shirts, carry UCFPD radios (non-police frequency), and patrol all the campus parking lots with parking services vehicles or mountain bikes. The SPP's enforce the parking regulations on campus and also provide the following services: operate the UCF visitor's information booth, assist the police officers with traffic control, assist stranded motorists with off-the-road stuck vehicles, assist stranded motorists with battery jumps, assist motorists with keys locked in their vehicles, provide valet parking for special events, and, as trained crime watchers, report any suspicious activity on campus.

The Parking Services Division sells UCF parking decals. All full-time and part-time faculty, staff, and students (day & evening) must have a parking decal. A daily $2.00 parking permit is available to anyone who does not have a UCF parking decal. For more information, stop by Parking Services Division at UCFPD and pick up a copy of the parking regulations, or call 823-5812.


INFORMATION TECHNOLOGIES AND RESOURCES

Vice Provost: Joel L. Hartman, AD 326, Phone (407) 823-6778

The Division of Information Technologies and Resources includes the Library, Computer Services and Telecommunications, the Office of Instructional Resources, and the Distributed Learning Course Development Unit. The Division has responsibility for planning, implementation, and support of information technology resources to serve the University's primary functions of instruction, research, and administration. Specific services and facilities provided by each of the above units are described in the following sections.

UNIVERSITY LIBRARIES

Director: Barry B. Baker, LR 512, Phone (407) 823-2564
Interim Associate Director: Roger D. Simmons, LR 512, Phone (407) 823-2564
The University Library, housed in a facility of 200,000 square feet, has a collection of over 1,000,000 volumes (books, journals, government documents) with approximately 5,000 subscriptions (journals, newspapers, and other serials) and over 11,000 media titles. The Library is a partial depository for U.S. and Florida documents and U.S. Patents. LUIS, the Library’s on-line catalog, is accessed through terminals and PCs in the Library, at other campus locations, or from off-campus computers. Through LUIS, Library users are able to determine whether the UCF Library owns a particular item and the location and availability of the item. LUIS also provides on-line access to catalogs of all state university libraries in Florida, and to ERIC, IAC, and other indexes. In addition to LUIS, on-line access to a variety of electronic information resources indexes and full-text databases is provided.

Education and training for effective use of information technology and resources are made available in a state-of-the-art facility, where students have opportunities for immediate hands-on experience with presented techniques. The Library is open approximately 95 hours each week, including evenings and weekends. A shortened schedule is maintained during vacation periods. Hours are extended during the last few weeks of each semester. A staff of professional librarians and paraprofessionals is available to assist those using the Library. Arrangements may also be made for class or small group instruction. Materials not in the Library’s collections are available through the Interlibrary Loan Service. The Library also provides customized computer-produced bibliographies from any of approximately 500 different commercially available databases.

Special services are provided for people with disabilities. By using a computer terminal, students can determine the availability of the 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 or faculty may arrange for instruction in its use. Through the cooperation of the University’s Office of Student Disability Services and the Florida Bureau of Blind Services, the Library staff will aid disabled students in obtaining special equipment they may need to use Library resources.

The Curriculum Materials Center, located in the College of Education, provides a variety of K-12 educational curriculum materials in various formats for student and faculty use. The collection numbers over 20,000 books and 3,500 units of all types of media.

Students enrolled in the University’s area campuses in Daytona Beach and Brevard County receive a full range of services from the Daytona Beach Community College Library and the BCC/UCF Joint Use Library. The UCF Library purchases library materials for addition to these libraries in support of UCF academic programs taught at these sites. Students at the South Orlando Campus have access to an “electronic” library. On-line access to the catalog of the main Library collection is available from all branch campus locations, and materials are delivered through a regular courier service. On-line access to many electronic full-text journals and databases is also provided.

Students enrolled in the University’s area campuses in Daytona Beach and Brevard County receive a full range of services from the Daytona Beach Community College Library and the BCC/UCF Joint Use Library. The UCF Library purchases library materials for addition to these libraries in support of UCF academic programs taught at these sites. Students at the South Orlando Campus have access to an “electronic” library. On-line access to the catalog of the main Library collection is available from all branch campus locations, and materials are delivered through a regular courier service. On-line access to many electronic full-text journals and databases is also provided.

Voice response systems support dial-up access to registration, grades, and financial aid information. Campus kiosk workstations are available in the following buildings: Administration, Library, Business Administration, College of Health and Public Affairs, Computer Science, Education, and Daytona and Brevard Campuses. Additional information is available on the UCF World Wide Web server (http://www.ucf.edu). Computer accounts are provided to all students, faculty, and staff for access to e-mail, public computer labs, and 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 at competitive prices. The store is an authorized campus reseller for Dell, Apple, IBM, Sun, Microsoft, Lotus, and many other major brands. Training classes and computer equipment maintenance services are also available from the store.

COMPUTER SERVICES AND TELECOMMUNICATIONS

Director: William H. Branch, CSB 305, Phone (407) 823-2711

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

Central instruction and research computing is supported primarily through the following systems: an IBM RS/6000 model 580, IBM ES/9000 model 170, a series of Novell LAN file servers, and other Internet and campus facilities. Four public access IBM PC labs are located in Computer Center II (CCII), the Library (LIB), Education (EDU), and the Business Administration Building (BA). UNIX equipment is also available in CCII and the Computer Science Building. Macintosh labs are available in CCII and EDU. Public access labs are available to all faculty and students; most labs are open seven days a week with extended hours.

Voice response systems support dial-up access to registration, grades, and financial aid information. Campus kiosk workstations are available in the following buildings: Administration, Library, Business Administration, College of Health and Public Affairs, Computer Science, Education, and Daytona and Brevard Campuses. Additional information is available on the UCF World Wide Web server (http://www.ucf.edu). Computer accounts are provided to all students, faculty, and staff for access to e-mail, public computer labs, and 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 at competitive prices. The store is an authorized campus reseller for Dell, Apple, IBM, Sun, Microsoft, Lotus, and many other major brands. Training classes and computer equipment maintenance services are also available from the store.
Main campus telephone services are provided by the Telecommunications Department's Siemens 9751 multinode 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: Dr. Ruth Marshall, LIB 107, Phone (407) 823-2571

Instructional Resources supports UCF administrators, faculty, and staff with multimedia design and production, digital media, television production, audio production, photography, graphics, and a full range of multimedia and audiovisual classroom support services. OIR's facilities include the Digital Image Processing Lab (DIPL), located in the Research Pavilion in the Central Florida Research Park. In association with its community partners, DIPL offers UCF faculty access to state-of-the-art digital imaging technologies including digital image processing, digital document scanning, and CD-ROM production. OIR's Faculty Multimedia Center (LIB 156) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR's Electronic Classroom (LIB 157) is used for video conferencing and distributed learning course origination. It also provides faculty with an excellent location for training in distributed learning production and delivery skills. OIR also supports several advanced multimedia classrooms located throughout the campus.

OIR provides UCF with a full array of distributed learning delivery systems including an interactive video network that serves several rooms on the main campus, the Downtown Academic Center, the branch campuses at Brevard and Daytona and other off-campus locations; an ITFS network that serves the main campus, the Downtown Academic Center in Orlando, the branch campuses in Brevard and Daytona, and the South Orlando campus; Ku and C-band satellite reception; and cable television delivery on the main campus. OIR supports UCF's Web-based distributed learning programs with Web and multimedia training for faculty and Web design and production facilities.

INSTRUCTIONAL TELEVISION ENGR 387, (407) 823-2481

The university offers a variety of courses by way of television. They are available either live or on tape at various locations both on and off campus. Live courses may be viewed at the Brevard and Daytona Beach campuses, as well as at selected sites around the Greater Orlando area. Live courses may also be viewed on a cable channel in the dorms and at several fraternity and sorority houses. Some courses are also broadcast to individual homes through local cable companies in Brevard and Orange counties. Courses on tape are available in the learning centers or libraries at all of the university's campuses. Courses available on tape or live television are listed each semester in the Schedule of Classes.
STUDENT AFFAIRS

INTRODUCTION
The mission of the Division of Student Affairs is to provide services and programs to enhance the teaching/learning process while simultaneously improving the student's total collegiate experience. In partnership with other university divisions and the community, the division fosters an environment that promotes the holistic development of students and encourages lifelong learning. Student Affairs at the University of Central Florida encompasses three separate but interdependent components: student services, student life, and student development.

OFFICE OF THE DEAN OF STUDENTS
The Dean of Students Office (Ad Bldg., Room 282, (407) 823-2851) is the primary source for students seeking information on non-academic areas of the university. The office staff strives to introduce students to educational opportunities designed to provide personal, social, and academic growth outside the classroom. Additionally, the Deans supervise the judicial affairs process as well as counsel students confronted with a variety of difficulties, referring students for specialized professional services as necessary.

The Division of Student Affairs annually publishes the student handbook, The Golden Rule, which contains more detailed information on student life. Copies may be obtained in the Student Affairs Suite, Room 282, Administration Building. Students are urged to take advantage of the many services and educational programs available through the Dean of Students Office and the Division of Student Affairs.

CONFIDENTIALITY OF STUDENT RECORDS
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. In accordance with 228.093, F.S., the university is required to release student directory information to independent vendors upon request. Therefore, if students do not wish their names on such lists, they should notify the Dean of Students. The Golden Rule outlines the university procedures for confidentiality.

CLASSROOM RESPONSIBILITY
Students are responsible for maintaining a 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 Dean of Students Office for judicial 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 Regents. The breach or violation of any of these laws or regulations may result in judicial action. Detailed conduct regulations and procedures are presented in The Golden Rule.

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

STUDENT GOVERNMENT
Student Government's (SG) purpose is representing student views on issues affecting UCF and promoting progressive changes to create improvements in campus life. In advocating better communication and understanding among the UCF family, Student Government also provides numerous services which impact student life. These services currently include computer labs, discount tickets to movie theaters and theme parks, free local calling on campus telephones, vehicles for club and organization use, funding for legal services, recreational services and Campus Activities Board programming. Money which Student Government allocates for these services comes from activity and service fees which students pay during registration. Additionally, UCF clubs and organizations may receive funding for events, projects and travel to conventions from the Student Senate, SG's legislative body. 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 our federal government system in that there are three branches: Legislative, Judicial, and Executive. The Executive branch, composed of the Student Body President, Vice President, and 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 which benefit the student body. The Judicial branch oversees hearings concerning student rights violations.
All students are encouraged to take an active role in Student Government. For information on how to be involved with SG or how your club or organization can receive funding, contact the Student Government Association offices located in the Student Union, Room 214, (407) 823-2191, or visit the Student Government web page (http://pegasus.cc.ucf.edu/~sga).

STUDENT LEGAL SERVICES

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

ORIENTATION

Orientation sessions are mandatory for all new freshman and transfer students at the University of Central Florida. Important information is provided regarding advisement, registration, housing, the transition to college life, and the administration of placement tests. Administrators, faculty, and a specially trained group of students assist the sessions and are available to answer any questions. Information is mailed to each student accepted by the university regarding date, time, and location of the orientation sessions.

UNIVERSITY COUNSELING AND TESTING CENTER

The University Counseling and Testing Center (Student Resource Center, Room 203 (407) 823-2811) offers a professional staff of psychologists and counselors to assist students through educational, vocational, and career counseling; and personal, social, relationship, marriage, and family counseling.

The Center administers the following national testing programs: GRE, LSAT, GMAT, and MCAT. In addition, the Center administers the College Level Academic Skills Test (CLAST), and a variety of interest, aptitude, career, occupational, and personality assessments.

The Center presents special programs throughout the year, including training in relaxation and coping skills, self-hypnosis training, stress reduction training, and group psycho-therapy. All Center services are free to UCF students.

CAREER RESOURCE CENTER

The Career Resource Center, provides a broad range of career related services to UCF students, alumni, and employers. The Center runs five career expos and fairs, weekly career planning mini classes, and hosts several hundred employer recruiting visits each year. To help students navigate the complexities of the job market, the center offers a database information management system which can refer resumes to interested employers. Full-time and part-time jobs are listed on a 24-hour telephone jobsline called KnightLink. An employer information library is available. Career Development Coordinators are available to assist with individual career needs.

Students beginning studies at UCF are encouraged to begin thinking about careers as soon as possible. Seniors are urged to register at least two semesters prior to graduation. Further information may be obtained by visiting the Center in Building 7F, Student Resource Center or calling (407) 823-2361.

HOUSING

Regularly enrolled single students paying registration fees for a minimum of nine semester hours may apply for assignment to university residential units. Currently, there are seven residence halls on the campus of the University of Central Florida. The total combined designed capacity of the seven halls is 867 spaces. Additionally, there are 15 buildings in the Lake Claire Courtyard Apartment Complex which house 702 students in single occupancy four bedroom apartments. These apartment facilities are restricted for assignment to students who have completed at least 24 semester hours of college credit. Because of the limited amount of space in university housing facilities, the University does not require any student to live on campus. There are no on-campus accommodations for married students.

Priority for assignment is given to incoming Freshmen who will occupy approximately 50 percent of the university's housing capacity in the seven residence facilities. 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 receipt of the completed housing application in the Housing Office. Applicants should CAREFULLY READ the application before submitting it to the Housing Office along with the Letter of Acceptance to the university and the $200.00 prepayment.
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 Semester 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 Meal Plans available at the university. Specific information concerning University Meal Plans is available from Marriott Corporation, P.O. Box 168017, UCF, Orlando, FL 32816-0222.

Applications and other information concerning university housing may be obtained by consulting the Department of Housing and Residence Life, P.O. Box 163222, UCF, Orlando FL 32816-0222, phone: (407) 823-4663.

**OFF-CAMPUS HOUSING**

Within two miles of the campus are numerous apartment and duplex communities in addition to a privately-owned residence hall complex. Sidewalks, bike paths, and Tri-County bus service connect many of these facilities with the university. Students living off-campus are invited to participate in one of the university meal plans.

**STUDENT HEALTH SERVICES (SHS)**

Recognizing the importance of lifestyle in health and the prevention of disease, the 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 Advisory Committee (SHAC) serves as liaison representing students for Health Center programs and operation.

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 area specialists is established.

Each health fee paying student is entitled to the benefits provided through the Student Health Services and outlined in the Student Health Services brochure. Copies of the brochure are available in the Student Health Center, the Student Affairs Suite, and are mailed to students along with the optional health and accident insurance materials.

Most office consultations and Student Health Service 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 student's account.

Optional Health and Accident Insurance may also be purchased by response to the mailers or by contacting the Office of Student Affairs or Student Government. 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 which are beyond the scope of the Student Health Services, such as hospital referrals. (Charges incurred outside the Student Health Center are the responsibility of the student.)

Testing for HIV (AIDS virus) is not done routinely in our laboratory because a program for anonymous testing is available elsewhere, and arrangements for highly confidential AIDS testing on campus may be made by calling the HIV AIDS Education office at UCF-AIDS (407) 823-2437 or Health Resource Center (407) 823-5841. Information concerning these programs may be obtained through the Student Health Center at (407) 823-2701 during regular hours.

When the Student Health Center is not open, students can use the "Hot Line" phones at the front and back doors of the building to obtain Police Department help for urgent needs.

Blood drives are held several times annually on campus by the Central Florida Blood Bank. Students, faculty, staff, and family members are eligible for credits from the blood bank simply by identification and demonstrated need. Contact the Nurse Supervisor at (407) 823-5275 to make arrangements.

**STUDENT UNION**

The Student Union, which opened in 1997, is the new center of student life on campus. The Union serves the entire campus community with a wide variety of programs and services including a game room, computer lab, and offices for student organizations. There is over 16,000 square feet of meeting space in the Union which is available for use by student organizations, university departments, and community organizations. In addition, the Union is home to a wide variety of restaurants including Java Express, Sbarro, Subway, The Sweet Retreat, and Wendy’s. Retail stores in the Union offer a similar variety of services featuring a travel agency, floral shop, computer store, fraternity and sorority merchandise, convenience store, and UCF apparel.
Reservations for space in the Student Union can be made at the Student Union information desk or by calling (407) 823-2117. Student Union administration is located in Student Union (STUN) 318. The Student Union is a student-funded auxiliary operation and is partially funded through Activity and Service Fees allocated by the Student Government.

OFFICE OF STUDENT ACTIVITIES

The Office of Student Activities provides programs, resources, and services that enhance student life at the university. The office registers over 200 student organizations (student government, academic/preprofessional and honorary, sports clubs, military, religious, special interests, minority/international, and service groups) and advises the Campus Activities Board (CAB), the Consultants for Effective Leadership (CEL) and Volunteer UCF (VUCF). Other programs and services sponsored through this office include the Knights of the Roundtable and Leadership Services. The Office of Student Activities is located in Student Union 208, phone (407) 823-6471.

RECREATIONAL SERVICES

The Office of Recreational Services offers a variety of sports and recreational opportunities to the students of UCF and their immediate families and the UCF faculty, staff, and CFRP Recreation members. Recreation memberships may be purchased by the semester or the year.

These opportunities include intramural sports leagues and tournaments, organized recreation and fitness programs, unstructured open recreation, sports-related special events, and racquet stringing. Equipment may be checked out for use on and off campus.

The Office of Recreational Services is located next to the pool. Phone: (407) 823-2408.

OFFICE OF STUDENT INFORMATION AND EVENING/WEEKEND STUDENT SERVICES

The Office of Student Information and Evening/Weekend Student Services is a one-stop communications network and information center committed to gathering and disseminating information to students. The office is also responsible for the administrative supervision of student affairs functions for all University students taking evening and weekend classes and for the administration and programming of the 24-hour Student Information Buzzline, (407) 823-5479. The office phone number is: (407) 823-3111.

Information Booth & Evening Student Services:
8:00 a.m. to 9:00 p.m. Monday through Thursday, second floor Administration Building, Education Building Lobby, and College of Business Information Booth
8:00 a.m. to 5:00 p.m. Friday (same locations as above)

Weekend Student Services
10:00 a.m. to 2:00 p.m. Saturday at SG Kiosk (407) 823-6328
2:00 p.m. to 5:00 p.m. Sunday at SG Kiosk (407) 823-6328

INTERNATIONAL STUDENT SERVICES

The International Student Office provides services for all international students and resident aliens. Its central role is to assist international students and scholars attending UCF to adjust to the changing lifestyle in order to achieve their educational goals and gain a meaningful living experience in the United States. A wide range of special services is provided to the UCF international community, such as issuance of immigration forms I-20 A/B and IAP-66, assistance in locating off-campus apartments, counseling on personal, financial, academic, and cross-cultural communication matters, advisement in immigration and tax matters, promotion of social activities, and home visits in Central Florida. Further information may be obtained from the International Office, Barbara Ying Center, Building 71, or by calling (407) 823-2337.

STUDENT DISABILITY SERVICES

Student Disability Services provides information and 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.

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 which require administrative or academic adjustments.

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 official documentation to the Admissions Office. Students who have a disability which 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 who have disabilities. A Telecommunication Device for the Deaf (TDD) is available for hearing-impaired or speech-impaired persons with TDD's to contact the university. Phone (407) 823-2116, TDD calls ONLY.

Further information may be obtained from the Student Disability Services Office, Administration Building Room 149, Orlando FL 32816, phone: (407) 823-2371.

CREATIVE SCHOOL FOR CHILDREN

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 degree 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 a part of the yearly schedule. Experiences in observation and training in academic areas are also made available to university students. Opportunities for educational research are available to university faculty and graduate students. Hours are 7:45 a.m. - 5:15 p.m. Monday through Friday.

A Flex Time program is provided for children three through five. This program provides educational activities for children who need part time schedules. The program is open daily Monday through Friday 7:30 a.m. - 6:00 p.m. The school conducts a Summer Recreational Day Camp for elementary school children during the Summer semester. For further information, call the Creative School for Children, (407) 823-2726.

OFFICE OF VETERANS' AFFAIRS (OVA)

The Office of Veterans' Affairs (OVA) is a center for all veterans, including students who are using VA educational benefits to further their education. The office, located in room 132 of the Student Resource Center (407) 823-2707, has a professional staff augmented by student veterans to 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.

Students eligible for DVA education benefits may also be eligible for a VA Deferral of tuition and fees. The VA Deferral due date is published in the Schedule of Classes each semester. STUDENTS ELIGIBLE FOR FINANCIAL AID ADEQUATE TO COVER TUITION AND FEES ARE NOT ELIGIBLE FOR THIS DEFERMENT.

For fall and spring semesters, undergraduates must carry at least 12 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.

Students intending to enroll simultaneously 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 wish to change their major, or pursue a double major or dual degree, or add a minor may also 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.

In order 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 a 2.0 or higher GPA is earned 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 may also 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.
The Undergraduate Admissions Office coordinates the admission and enrollment process of all undergraduate first-time-in-college, transfer, non-degree, and non-Florida state university transient students to the Orlando, Daytona, and Brevard campuses. The office seeks to identify, attract, and enroll the desired number of talented, diverse, and academically qualified students who can contribute to and achieve academic growth from the multitude of programs offered through the university and community we serve. Through managed communication, a data management system and scholarships, the Office is able to attract students who are motivated, challenged, and have the desire to achieve academic prominence.

Office functions include administering programs for prospective students, such as campus tours, open houses, area receptions, and high school and community college visits. Students, parents, and high school and community college counselors are consulted on a continual basis regarding all aspects of admission and provided with general information on the academic, social, and living components of the university. The Office is committed to providing accurate and timely information to all constituents.

CAMPUS TOURS

Tours of 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 volunteers and last approximately one (1) hour. Appointments are not necessary.

Tours leave from the information booth on the second floor of the Administration Building at 11:00 a.m. and 2:00 p.m., Monday-Friday, except holidays. Group tours or special requests may be scheduled by calling Undergraduate Admissions at (407) 823-5830.

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. Personal interviews are also available, and are encouraged for those students who are finalizing their college plans. Appointments for personal interviews 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, and include a 20 dollar (US$), non-refundable application fee. Students may also apply on-line at our web site, www.ucf.edu. Students should apply several months in advance of an anticipated start date. Mail admission applications to: Undergraduate Admissions Office, University of Central Florida, P.O. Box 160111, Orlando, FL 32816-0111. Questions concerning admission requirements and applications should be forwarded to the same address or by calling (407) 823-3000.

Applications for admission will be accepted up to one year prior to the start of the term desired. The priority application deadlines are July 15 for the Fall semester, November 15 for the Spring semester, and April 15 for the Summer term. The priority deadline for most financial assistance and scholarships is March 1. Information and an application for university housing are sent at the time of acceptance into 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 catalog outlines minimum requirements to be considered for admission and that admission to the university is selective. The satisfaction of minimum requirements does not automatically guarantee admission. Conversely, Florida Board of Regents (BOR) 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 should request official transcripts from each educational institution attended to be forwarded directly to the Undergraduate Admissions Office. All supporting admissions documents must be received directly from the issuing institution or testing agency to be considered official. 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.
IMPORTANT: 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 students who have not submitted completed records by the deadline will be placed on administrative hold. Students with incomplete records will not be permitted to register for a future term until all transcripts and other required documentation have been received. Students whose records are not satisfactory may be placed on academic probation, have their admission status changed to non-degree or transient, 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 and did 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 deadline. This form is available in the Undergraduate Admissions Office or by calling (407) 823-3000. This process reactivates the application only; students will be reevaluated for admission to the new term for which they are applying.

LIMITED ACCESS PROGRAMS

Admission to the university does not guarantee admission to a limited access program, and some majors at the university limit the number of students who may enroll. Limited access status is justified when student demand exceeds available resources, such as faculty, instructional facilities, or equipment, or when specific accrediting requirements apply. Criteria for admission are selective to include: indicators of ability and indicators of performance, creativity, or talent to complete required work within the program. For admission to limited access programs, community college transfer students with Associate of Arts degrees from Florida public community colleges are given equal consideration with UCF students. Admission to such programs are governed by A-10.24 (8), the Articulation Agreement, and by 6C-6.01, FAC, of the Board of Regents rules.

ORIENTATION

All undergraduate degree-seeking students are required to attend orientation prior to enrollment. Information on orientation is mailed to all students once accepted to the university.

ADMISSION CATEGORIES

Students may make application to the university in one of the following categories:

A. Freshman (first-time-in-college)
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. Non-Degree Seeking

FRESHMAN APPLICANTS

Any first-time-in-college (FTIC) student who meets the minimum admission requirements is encouraged to submit an application. The university will do everything possible to accept 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, and pattern of courses completed, counselor recommendations, and personal achievements and honors will be considered in the selection process. An application pool will be maintained when the number of applicants exceeds the number of qualified students to whom admission may be offered. Based on the number of cancellations received, selections will be made from the applicant pool. The university reaffirms its Equal Educational Opportunity (EEO) commitments and seeks to increase the enrollment of multicultural students.

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 which are not remedial in nature) as shown in the table below to be considered for admission. A grade
A 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 SUBJECT** | **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 Dept. of Education | 4

**TOTAL 19**

**APPLICANT ELIGIBILITY**
All applicants must meet the following State University System (SUS) minimum eligibility index standards to be considered for Admission:

<table>
<thead>
<tr>
<th>HS GPA</th>
<th>Test scores must be:</th>
</tr>
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<tbody>
<tr>
<td><strong>SAT</strong></td>
<td><strong>or</strong></td>
</tr>
<tr>
<td>2.0</td>
<td>1140</td>
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<tr>
<td>2.1</td>
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<td>2.3</td>
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<td>2.6</td>
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<td>2.7</td>
<td>990</td>
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<tr>
<td>2.8</td>
<td>980</td>
</tr>
<tr>
<td>2.9</td>
<td>970</td>
</tr>
<tr>
<td>3.0</td>
<td>No minimum score required.</td>
</tr>
</tbody>
</table>

* Admissions 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 which 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 an individual learning plan for each student admitted under this alternative.

* Students who have been enrolled in dual enrollment courses will be required to have a "C" average (2.0 GPA) for all dual enrollment course work attempted.

* Any student admitted without two years of one foreign language in high school or the equivalent (minimum 8 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:

1. **Early Admission** is for students who have completed their junior year in high school and would like to enroll at the university as full-time students for their senior year of high school. Students must submit an application for admission by the published deadline. In addition the following information is required:
   - official copy of high school transcripts
   - 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
2. **Dual Enrollment On-Campus** is for students who wish 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 deadline, as well as all items listed above.

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

**TRANSFER APPLICANTS**

UCF welcomes transfer applicants to the university. Students should submit either the State University System application or apply on-line at [www.ucf.edu](http://www.ucf.edu), and arrange to have official transcripts sent from all colleges attended. The Undergraduate Admissions Office computes a grade point average for each institution attended, as well as a cumulative grade point average on all college courses attempted. This computation does not recognize plus or minus grades, and only recognizes grade forgiveness when it is used as part of an Associate of 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 minimum cumulative grade point average of 2.0, and must have a minimum grade point average 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.

Transfer students are required to complete 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 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 meet freshman high school unit entrance requirements, the high school academic grade point average, and minimum SAT or ACT scores (as listed on previous page); have at least a 2.0 GPA on a 4.0 system for all college-level academic courses attempted; and be in good standing (minimum 2.0 GPA) and eligible to return as a degree-seeking student to the last institution attended.

**TRANSFER APPLICANTS WITH AN A.A. DEGREE FROM A FLORIDA PUBLIC INSTITUTION**

Admission of Associate of 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 Board of Regents and the State Board 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, who has completed the university parallel program, and who has received the Associate of Arts degree which included 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 grade point average 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.)
- 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 of Arts degree from a Florida public community college or university but have not met the foreign language requirement and do not qualify for exemption as defined below* may be admitted to the university on a provisional basis.
- Students who received an Associate of Arts degree from a Florida public community college prior to September 1, 1989.

Any student admitted without two years of one foreign language in high school or the equivalent (minimum 8 semester hours) of such instruction at the post-secondary level, must satisfy the admission requirement prior to graduation.

Florida Community College Associate of Arts graduates are guaranteed the following rights under the Statewide Articulation Agreement (State Board of Education Rule 6A-10.024):

1. Admission to one of the ten (10) 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
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 Articulation and Community College Relations.

TRANSFER APPLICANTS - MORE THAN 60 HOURS, HAVE NOT RECEIVED AN A.A. DEGREE FROM A FLORIDA PUBLIC INSTITUTION
Undergraduate transfer applicants who wish to be admitted as upper division students must have met all of the following requirements:
- A minimum of 60 semester hours of academic course work
- The English and Mathematics requirements of the Gordon Rule
- 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 Registrar's Office. Guidelines for which office students should make application to are outlined as follows:
A. 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 application form.
B. Students who have attended the University of Central Florida as a degree-seeking undergraduate student should apply through the University 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 catalog). Students must meet all transfer grade point average 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.

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 Form. Because of additional processing time needed for International Students, students should submit the application as early as possible, but no later than May 1 for the Fall Semester, and September 1 for the Spring Semester. To complete the application, please follow the steps below.
- Submit the completed UCF application form with the required $20.00 application fee. 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 than the U.S. system will need a document-by-document evaluation of the secondary school record. 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.
- If the student has attended any international universities, a 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, 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, they are used in conjunction with other required credentials, and students should prepare sufficiently to achieve the highest possible score.
EDUCATIONAL TRANSLATIONS AND EVALUATIONS

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

World Education Services
P.O. Box 745
Old Chelsea Station
New York, NY 10113-0745

Josef Silny & Associates
P.O. Box 248233
Coral Gables, FL 33124

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 transcripts before an admission decision is made.

INTERNATIONAL STUDENT MANDATORY HEALTH AND ACCIDENT INSURANCE

Each international student accepted for 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 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.
TRANSIENT STUDENT APPLICANTS

Students in good standing with a 2.0 grade point average at the last regionally accredited institution attended who wish to enroll for one term at UCF may be considered for admission as transient students. Such enrollment terminates at the end of one term and does not presuppose regular acceptance 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 Registrar's section of this catalog. Transient students are not eligible to receive financial aid. Registration is permitted on a space available basis.

NON DEGREE-SEEKING APPLICANTS

This classification allows qualified students to enroll in selected courses at the university without satisfying requirements for admission to degree-seeking status. Successful completion of courses while in this classification does not provide a basis for regular admission at a later date. Non degree-seeking status is granted in exceptional cases only, and will usually be reviewed by the Admissions and Standards Committee. The following regulations will apply to non degree-seeking students:
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. Non degree-seeking students are subject to the same rules and regulations as degree-seeking students
3. Registration is permitted on a space-available basis
4. A maximum of 15 undergraduate baccalaureate semester hours earned as a non degree-seeking student may be applied toward a degree if a non degree-seeking student is later accepted as a baccalaureate student
5. 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
6. Non-degree students are not eligible to receive financial aid nor to participate in intercollegiate sports

TRANSFER CREDIT - ALL APPLICANTS

All grades from a regionally accredited college or university in transfer courses that are normally a part of a baccalaureate degree program are shown on the student's permanent UCF record. The university recognizes an even grading system (plus or minus is not used). In addition, grade forgiveness is honored only if it has been awarded as part of an AA degree from a Florida public community college. Credit is not awarded based on job descriptions, CLEP scores below the 50th percentile, life experience, or course work that is non-academic.

ACCREDITED INSTITUTIONS

For the purposes of this catalog "Accredited Institutions" means those institutions 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
- 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 Audit, which applies earned credits to the intended degree program. This 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 is determined by the college or 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 which meet the requirements of the General Education Program and the Gordon Rule are determined through the process described in this catalog under "University Degree Requirements." 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 the accepted transfer courses are clearly understood 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 (A.C.E.) 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 A.C.E. 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 the university 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. For more details, refer to the discussion of Academic Honors in the section titled Undergraduate Degree Requirements.

ADMISSIONS AND STANDARDS COMMITTEE
The Admissions and Standards Committee is composed of representatives from throughout the University including representatives from the Faculty Senate, Multicultural Student Services, Student Affairs, Enrollment and Academic Services, the Student Body, and International Student Services. This committee normally meets on a regular schedule to review marginal cases and to consider the appeals of applicants. A letter of explanation to the Chair, Admissions and Standards Committee is recommended in establishing the basis for an appeal.
The Registrar's Office primary purpose is the registration of all students, safe keeping and control of all student records, maintaining the student database, developing the schedule of classes and the assignment of classrooms, and coordinating graduation and commencement activities. The office contributes to the enhancement of student enrollment and retention and ensures that the appropriate administrative support services are available to contribute to the academic experiences of students who are attending or have attended the university.

The Registrar's Office is comprised of five units: Records, Registration, Student Data Base Control, Room Scheduling, and Graduation and Commencement. The office operates as a cohesive unit in providing registration, record services for students, faculty, and staff, coordination of the commencement ceremony, and room scheduling for academic purposes. All units operate as student service units whose primary function is providing administrative services to all students of the university. All units of the office work closely with the other units of Enrollment and Academic Services as well as other university departments. The office is integral to the mission of the Division of Enrollment and Academic Services and the university in general. The Registrar's Office is located in Administration (AD) 161, phone (407) 823-3100, FAX (407) 823-5652, email: registrar@mail.ucf.edu.

ADDRESS CHANGES

The address the university utilizes for students is taken from the application for admission or readmission. It is the students' responsibility to make appropriate changes to their address. Address changes can be made in the Registrar's Office or at any of the kiosks located on campus. Address changes can also be made by writing the Registrar's Office. Written requests must be signed and the student number provided. Verify changes at a kiosk.

NAME CHANGES

Official Name Change forms, available in the Registrar's Office, must be submitted in order to change your legal name on your student record. Obtain a notary public seal and attach copies of legal name change documents (i.e., marriage certificate, divorce decree, etc.). Submit to the Registrar's Office, AD 161.

AUDIT REGISTRATION

Auditor students are those who wish to attend class(es) without receiving academic credit. Audit registration is on a space available basis during the last hour of Regular Registration or at any time during Add/Drop. 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 Add/Drop, but must remain in the course or withdraw through normal withdrawal procedures.

New students must be accepted for admission. Senior citizens, see senior citizen audit section for details. Audit forms, available in the Registrar's and college advising offices, must be signed by the instructor and presented at the time of registration.

REGISTRATION

During each academic semester, registration is held for all new students, currently enrolled, degree-seeking and non-degree seeking students for the following term. Registration consists of Early Registration which is normally held immediately after the mid-term of the current semester for the next semester, Regular Registration which is normally held one or two days immediately before the start of the semester, and Late Registration and Add/Drop which is held during the first week of classes for each semester. Spring Early Registration is held following midterm for the fall semester. Summer and fall Early Registrations are held concurrently immediately following the mid-term of the spring semester. Registration is available by telephone (with an 800 as well as a local number), over the World Wide Web (using the POLARIS system), in the college advising offices, and at walk-by. The dates and times for each registration period are included in the Schedule of Classes which is published for the summer and fall semesters and spring semester.

ENROLLMENT CERTIFICATIONS

To confirm enrollment in the university, students should come to the Registrar's Office, AD 161. A picture identification is required. Enrollment certifications for a current term are available after Add/Drop.

GRADE CHANGES

The changing of a grade that has been previously assigned by a faculty member can only be made by that faculty member. Change of grade requests are submitted by the academic department with dean's approval.
**CHANGE OF MAJOR**
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. Major changes can be made in the Registrar's Office or by mail. Written changes must include the student's identification number and signature.

**GRADE FORGIVENESS**
Grade forgiveness forms are available in the Registrar's Office, AD 161. This request must be submitted not later than the last day of Add/Drop for the term in which the student has registered for the course being repeated. Grade forgiveness is limited to two courses during the student's postsecondary career.

**HOLDS**
Holds may be placed on a student's records, transcripts, grades, diplomas or registration because of financial or other obligations to the university. Satisfaction of the hold is required before a release can be given. In order to obtain an immediate release on financial holds, payment to the Cashier's Office must be made in cash, cashier's check or money order. Credit cards are not accepted.

**READMISSION**
An application for readmission is required if a student was academically dismissed from the university (disqualification or exclusion) or if the student has not enrolled for two consecutive terms (not including summer). See section on Readmission as an Exception to University Policy below. The Readmission Application is available in the Registrar's Office, AD 161, or on the World Wide Web.

If the student has attended another regionally accredited institution, the student must request an official transcript be sent to the Registrar's Office. If the student was previously admitted to a limited access program, they will be placed in "pending" status of that major and must be readmitted to the program by the department or college. If the student has left the State of Florida for at least one year, the student may be required to complete the Florida Residency Affidavit.

Any readmitted student whose all-college or UCF cumulative grade point average is less than 2.0 (C average) at the time of last enrollment with 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 normally be required to be in good standing (2.0 grade point average) with no allowance for grade forgiveness and be eligible to return to the last institution attended.

Students who have previously attended the University of Central Florida as degree-seeking students and wish to pursue a second bachelor's degree, must apply by completing the Readmission Application. This application is available from the Registrar's Office or on the World Wide Web.

**READMISSION AS AN EXCEPTION TO UNIVERSITY POLICY**
Immediate or early readmission (readmission as an exception to university policy) following disqualification or exclusion is the responsibility of the Admissions and Standards Committee. The contact for the committee is the Registrar's Office, AD 161, phone (407) 823-3100.

- Students seeking immediate or early readmission must complete the Application for Readmission as an Exception to Policy form in the Registrar's Office
- Students are required to request six (6) UCF transcripts (at student's cost) from the Registrar's Office
- Students may not make a personal appearance before the Admissions and Standards Committee when seeking immediate or early readmission
- Appeals of decisions made by the Admissions and Standards Committee are made to the Associate Vice Provost for Enrollment and Academic Services, AD 210.

**SCHEDULE OF CLASSES**
The schedule of classes is published two times each year. One edition contains the summer and fall terms and the second edition contains the spring term. The schedule of classes is distributed by the colleges and departments.

**RESIDENCY RECLASSIFICATION**
Enrolled students who are classified as non-Florida residents for tuition purposes and who believe they may qualify for in-state tuition, may submit a Residency Reclassification form available in the Registrar's Office. Supporting documentation is required to substantiate residency for tuition purposes.

If denied Florida residency for tuition purposes by the Registrar's Office, the student may appeal. Information on the appeal process can be obtained from the Registrar's Office, AD 161, (407) 823-3100.

**SENIOR CITIZEN AUDIT**
Senior Citizens (60 years of age or older) who have been residents of the State of Florida for 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
STATE EMPLOYEE AND
STEP (NATIONAL GUARD)
REGISTRATION

State of Florida employees and State Tuition Exemption Program (National Guard) students register on the last day of Regular Registration. These registrations are on a space-available basis only. State employees are required to submit the Employee Tuition Fee Waiver Form which may be secured from Human Resources, Administration Building 230. Registrations before the time specified in the Schedule of Classes will result in the student being assessed regular fees. The tuition fee waiver cannot be used for courses which 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 on the last day of Regular Registration at the prescribed time. STEP students must present "Certification" letter to the Student Accounts Office (AD 112) to receive waiver of eligible fees.

STATE UNIVERSITY SYSTEM OF FLORIDA (SUS)
TRANSIENT STUDENTS

An SUS transient student is a student who is seeking a degree from one of the other public Florida universities and wishes to take courses with the University of Central Florida. Students must complete the SUS Transient Application which is available at all SUS institutions. No application fee is required. The SUS Transient application must be completed each semester and should be mailed or delivered to the Registrar’s Office, AD 161, by the application deadline noted in the academic calendar. Students should contact the Registrar’s Office for registration information, phone: (407) 823-3100.

UCF STUDENTS ATTENDING ANOTHER STATE UNIVERSITY SYSTEM OF FLORIDA INSTITUTION

UCF students who wish to attend another SUS institution as a transient student may secure the SUS Transient Application form from their college advising office or Registrar’s Office. The prior permission of the department and college advising office is required to ensure that the courses attempted at another institution will transfer and meet the UCF Degree/General Education requirements.

UCF STUDENTS ATTENDING A NON-SUS INSTITUTION

Degree-seeking UCF students who wish to enroll at a non-SUS post-secondary institution as a transient student must complete the Transient Approval Form. This form is available from the department or college advising offices. The prior permission of the department and college advising office is required to ensure that the courses attempted at another institution will transfer and meet the UCF Degree/General Education requirements.

TRANSCRIPT REQUESTS

Requests for transcripts are made in the Registrar’s Office, AD 161. A student’s academic record can be released only upon written authorization signed by the student. No telephone or e-mail requests can be honored. Transcripts cannot be released if the student is on hold due to a financial obligation to the university.

Transcript requests should include the student’s full name, student number, and must have the student’s signature. Indicate the name and complete address 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 data are posted.

The first two (2) transcripts are provided at no cost. There is a $5 per transcript charge for each subsequent transcript request. A check or money order (made payable to UCF) should be enclosed with the transcript request. Cash payments can be accepted only by the Cashier’s Office during regular business hours. Written requests for transcripts should be addressed to: Registrar’s Office, Attn: Transcripts, P. O. Box 160114, Orlando, FL 32816-0114, or FAXED to (407) 823-5022.

STUDENT RECORDS

Student records submitted to the University become the property of the University and cannot be returned to the student or released to a third party. Copies of student records can be released if a written request signed by the student is received by the Registrar’s Office. Student records are stored in paper form in the vault in the Registrar’s Office. Once the student has been absent from the University for three academic years their records are transferred to optical disk storage and the paper copies are destroyed.
Students may withdraw from courses after the end of Add/Drop. The withdrawal time period begins the first business day after Add/Drop through the date specified in the University Calendar as the deadline for withdrawals. This is normally the mid-point of the semester. Students wishing to withdraw from a class must present their picture identification card and sign the withdrawal form in the Registrar’s Office, AD 161. Withdrawals may be accomplished by mail but mail requests must be postmarked no later than the published date for withdrawals which can be found in the University Calendar. Students who wish to withdraw after the published deadline must file a petition in the Enrollment and Academic Services Office, AD 210, (407) 823-2691.

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 45 days of the day the university receives a request for access.

Students should submit to the Registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish 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.

Students may ask the university to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed, and specify why it 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 which 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.

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
TUITION AND FEES

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 Board of Regents and the Florida State Legislature and are subject to change without notice. Fees are affected by residency status. Information on Florida residency for tuition purposes is on the following page.

Students are encouraged to obtain a fee invoice/schedule to confirm fees and course registration. Fee invoice/schedules are available on the POLARIS web system, from student's college advising offices, and in the Registrar's Office. Students should obtain a new fee invoice/schedule after making any course changes or schedule adjustments.

All university fees must be paid at or before the end of the Add/Drop registration period. Tuition not paid by the payment deadline date for each term will result in late fees.

The following schedule applies to all University of Central Florida students:

A. Application fee. Must be paid by U.S. check or money order (required with all applications for admission to the University and not refundable) ............... $20.00

B. Registration Fees per semester are shown below 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.

1997-98 Fee Schedule
(1998-99 fees not available at time of publication)

<table>
<thead>
<tr>
<th>Category</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>U-Grad (0000-4999)</td>
<td>Graduate (5000-7999)</td>
</tr>
<tr>
<td>Matriculation*</td>
<td>$43.92</td>
<td>$105.64</td>
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<tr>
<td>Non-Resident Fee</td>
<td>-0-</td>
<td>-0-</td>
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<tr>
<td>Building Fee</td>
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<tr>
<td>Capital Improvement Fee</td>
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<td>Financial Aid Fee</td>
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<td>5.28</td>
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<tr>
<td>Non-Res Financial Aid Fee</td>
<td>-0-</td>
<td>-0-</td>
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<tr>
<td>UCF Activity &amp; Service Fee</td>
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<td>6.95</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
<td>6.50</td>
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<tr>
<td><strong>Total per Hour</strong></td>
<td><strong>$64.32</strong></td>
<td><strong>$129.13</strong></td>
</tr>
</tbody>
</table>

* Repeat Course Surcharge: Beginning with the fall term, 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.

* Excess Hours Surcharge: The per credit hour charge to the student will be increased by 50% for any credit hours beyond 115% of the credit hours to be earned at the university as required for the degree exclusive of those credit hours and students exempted by Board policy.

Other Fees: Resident and Non-Resident Students

UCF Health Fee (per term-main campus-course offerings) 47.30
UCF Health Fee (summer term-main campus-course offerings) 35.20
UCF Mat & Sup Fee (approved courses only-varies per course) 2.00-15.00
Campus Card Fee 10.00
Campus Card Replacement Fee 15.00
Late Registration Fee (see "E" below) 50.00
Late Payment Fee (see "E" below) 50.00

Returned Check Fees:

Check amounts up to $50.00 25.00
Check amounts over $50.00 and less than $300.00 30.00
Check amounts over $300.00 40.00*

* or 5%, whichever is greater

C. Room and Board (Based on accommodations and meal plan selected)

Residence Hall Rooms (per semester) $1005-1535.00
Board plans (approx.): contact Food Services (407) 823-2651 $825-950.00
Charge for late housing payment $50.00

D. Books and supplies (estimated) per semester $300.00
E. Late Registration and Late Payment Fees
   - $50 late registration fee will be assessed all students who register during the Late Registration period and pay fees by the deadline.
   - $50 late payment fee will be assessed all students who pay fees after the deadline.
   - Both a $50 Late Registration fee and a $50 late payment fee will be assessed all students who both register late and pay fees after the deadline.

All payments accepted after class cancellation notices are mailed, approximately the third week of classes, must be cash, cashier's check, or money order. Personal checks will not be accepted.

F. Vehicle Registration (required of everyone operating a motor-powered vehicle on campus) per calendar year for all students. Student's decal fee $68.00

G. Student Health Fee
   Mandatory fee assessed to all students except those enrolled at area campuses, (UCF-Brevard, UCF-Daytona Beach, Professional Development Center at South Orlando) and exclusively in Continuing Education courses.

H. Transcripts - First two provided at no charge. Each additional copy $5.00.

APPEALS

Students who wish 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 from Enrollment and Academic Services, Student Affairs, University Cashier, or the Student Accounts Section of Finance and Accounting. Students must submit their petitions to Student Accounts, Room 112, Administration Building, and may appear (not mandatory) before the Committee.

PAST-DUE ACCOUNTS

All financial obligations to the University must be met if good standing is to be maintained. 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.

PAYMENT PROCEDURES

Payment may be made in the Cashier's Office, AD 108. Hours are Monday and Thursday, 8:30 a.m. to 7:00 p.m., Tuesday, Wednesday, and Friday, 8:30 a.m. to 4:00 p.m. Credit cards are not accepted. Payments (NO CASH) may be placed in the Cashier's night depository on the north (pond) side of the Administration Building. INCLUDE SOCIAL SECURITY NUMBER ON CHECK OR MONEY ORDER.

Mailed payments (check or money order only) must be postmarked no later than the payment deadline to be considered on time and avoid the late fee. Address Payment to: Cashier's Office, University of Central Florida, P.O. Box 620000, Orlando, FL 32891-8449.

Do not assume your registration will be canceled if you do not pay fees or attend classes. 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 following conditions upon presentation at the Student Accounts Office of a Certification of Withdrawal issued by the Registrar. Any debts to the University will be deducted up to the full amount of the refund.

A. A full refund when:
   1. Any class is dropped before the end of the Add/Drop period
   2. Cancellation of the course by the University
   3. Student is denied admission to an offered course for whatever reason

B. Partial refund due to complete withdrawal from the University: For the fall and spring semesters, a twenty-five (25%) percent 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 semester, complete withdrawal from an individual session must occur before the first quarter of classes has elapsed for that session. Each session in the summer semester is considered individually for partial refund purposes. No refund will be made unless requested by the student from the Student Accounts Office, Room 112, Administration Building. The exact withdrawal deadline dates for each semester may be obtained from the Student Accounts Office.

C. 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.

D. Pro rata refunds for first term at UCF students: Between 40% and 90% of tuition and dorm charges for students who fully withdraw before 60% of the term has elapsed. Applies only to first term at UCF students. An administrative fee defined as the lesser of 5% of all charges or $100 will be deducted from the refund.
TUITION FEE WAIVERS FOR STATE OF FLORIDA EMPLOYEES

State employees, faculty, and staff who utilize a tuition fee waiver for course work (up to 6 credit hours) without payment of the registration fees must register on the day and time provided by the Registrar. Employees who register prior to the prescribed time and date will have an invalid fee waiver, and will be liable for all applicable fees on courses enrolled. It is the responsibility of the employee to register only on a space-available basis during the prescribed time as indicated by the Registrar, which is normally the last hour of Regular Registration. In addition, the tuition fee waiver cannot be used for courses which require increased costs. These courses include, but are not limited to: courses offered through the Center for Continuing Education, independent study, supervised research, supervised teaching lab, thesis hours, dissertation, internships, co-ops, practicums, or applied, individualized instruction in music, art, or dance, etc. State employees utilizing employee tuition waivers to enroll in graduate courses are liable for federal income tax and FICA tax on the value of the waiver for these courses.

TUITION FEE WAIVERS 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 current schedule of classes 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 in order to establish Florida residency. A completed Student Health History must be filed prior to registration. Inquiries should be directed to the Registrar's Office, Administration Building 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 Regular Registration at the prescribed time. STEP students should present FNG form 621-5-2 to the Student Accounts Office (AD 112) 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 which include the athletic fee, activity and service fee, health fee, campus card fee and material and supply fee. IF YOU DO NOT WISH TO UTILIZE THE FLORIDA PREPAID COLLEGE PLAN, PLEASE NOTIFY THE STUDENT ACCOUNTS OFFICE, AD 112, BY THE FEE PAYMENT DEADLINE. NOTE: THESE FEES MAY CHANGE EACH ACADEMIC YEAR.

FLORIDA RESIDENCY FOR TUITION PURPOSES

To qualify as a Florida resident for tuition purposes, students must:

- Be a U.S. Citizen, Resident Alien, Parolee, Cuban National, Vietnamese Refugee, or other refugee or asylee so designated by the U.S. 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 IRS 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:

- 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)
- 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. A letter on company letterhead from an employer verifying permanent employment in Florida for the 12 consecutive months before classes begin
g. Proof of membership in or affiliation with community or state organizations or significant connections to the State
h. Proof of former domicile in Florida and maintenance of significant connections while absent
i. Proof of reliance upon Florida sources of support
j. Proof of admission to a licensed practicing profession in Florida
k. Any other factors peculiar to the individual which 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
> No contrary evidence establishing residence elsewhere
> Documentation of dependent/independent status (notarized copy of most recent IRS tax return)

OR

Become a legal resident and be married to a person who has been a legal resident for the required 12-month period,

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,

AND

File a notarized residence affidavit with the Registrar's Office, AD 161. The Registrar's Office may require additional documentation as necessary to accurately determine the resident status of any student.
The primary role of this UCF office is to provide financial assistance to students and families, allowing them to participate fully in the total educational experience. We encourage all students 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 1998-99 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; generally at least 6 credit hours enrollment per term is required. Pell Grants are available to some students attending for less than 6 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 a 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 a Free Application For Student Aid (FAFSA) which generates a need analysis form. The results are forwarded to the UCF Student Financial Assistance office by the federal processor.

**MORE SPECIFIC ELIGIBILITY REQUIREMENTS ARE LISTED BELOW:**

- 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 Requirements.
- 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 applicable).
- Students may not receive aid in excess of the published "cost of attendance" (School Costs).
- 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 on the FAFSA (for need based programs).
- The applicant must meet minimum hours of enrollment and other program-specific criteria.

**UCF APPLICATION DEADLINES**

**OFFICE HOURS:**

<table>
<thead>
<tr>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>9:00 AM to 7:00 PM</td>
</tr>
<tr>
<td>Tue/Wed/Fri</td>
<td>9:00 AM to 5:00 PM</td>
</tr>
<tr>
<td>Thur</td>
<td>1:00 PM to 7:00 PM</td>
</tr>
</tbody>
</table>

(For office hours during break weeks, please contact our office)

- To be considered for the full range of aid available for the academic year (beginning with the fall term), the need analysis report must be received from 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 apply for aid after July 15, should not expect their aid to be paid until well after the beginning of the Fall semester.

**APPLICATION PROCEDURES**

The following steps can take 4 to 6 weeks to complete. Students should apply well in advance of the March 1 deadline of the year for which aid is being requested. Students who wish 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 you complete the Free Application for Federal Student Aid (FAFSA) or Renewal FAFSA.
IMPORTANT: The results of your FAFSA must be in our office by March 1 for the next fall and spring semesters, to meet our priority deadline, so that you may be considered for all aid available.

Read the instruction booklet carefully as you fill out the form. Errors and omissions can prevent you from receiving aid for which you could be eligible. Keep copies of all documents filed. You may use our website to electronically complete the FAFSA.

Follow-up promptly on all corrections to your FAFSA. If your record is "rejected in analysis" by the federal processor, be sure to provide them with the information they request as soon as possible. Processing of your file will be held up until corrections are made.

2. Request Financial Aid Transcripts (in addition to academic transcripts)
Students applying for financial aid at UCF starting with the fall semester of any year are not required to provide financial aid transcripts. However, mid-year transfer students (i.e., those students who will not attend until spring or summer) must provide a financial aid transcript from every school attended during that school year, whether or not any financial aid was received.

To request financial aid transcripts, provide the school with your SSN and the name under which you attended that school. Ask them to make sure your SSN is on the transcript they send to UCF. Allow 2 to 4 weeks for processing. If you are enrolled at another institution at the time you are involved in the UCF application process, wait until you have completed that term of enrollment before requesting the financial aid transcript.

3. Follow-Through
Your application will not be complete until all documents requested have been filed and reviewed in our office. Whenever you receive financial aid correspondence, review it thoroughly and follow directions promptly. Delays can be frustrating, as well as costly.

4. Verification
Federal regulations require that some students verify the information submitted on their applications. If selected for verification, you will be asked to provide additional information (such as copies of tax return forms, documentation of household size, untaxed income, etc.). It is not unusual for additional documents to be requested after the initial review of the file. Prompt response to requests for additional documentation will expedite completion of this process. Financial aid cannot be processed or received until verification is complete and all necessary corrections have been made.

5. Professional Judgment
Contact the Student Financial Assistance Office for an appointment with a counselor if you experience a circumstance that you were not able to state on your original FAFSA and might affect your financial situation.

6. Award Notification
Award and important additional information will be sent to you after we process your data. You may provide loan processing information at that time (AFTER APRIL 1998) by completing the Federal Stafford Loan Response Form.

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 address in the REGISTRAR'S OFFICE; all financial aid correspondence is mailed to that address.
- 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.
- Access the UCF Internet homepage for additional information at http://pegasus.cc.ucf.edu/~finaid/
- If you have extenuating circumstances or run into major problems at anytime, call our appointment line, (407-823-5285), to meet with a counselor.

Office Hours:
- Mon: 9:00 AM - 7:00 PM
- Tue/Wed/Fri: 9:00 AM - 5:00 PM
- Thu: 1:00 PM - 7:00 PM

Call (407)823-2827 for other information or to speak to someone in the office.
TRANSFER STUDENTS

Student transferring into UCF after the fall semester, (i.e., mid-year transfers) must provide UCF with a financial aid transcript from every post-secondary school attended in that academic year, whether or not financial aid was received. If you are eligible to receive aid at another institution for the academic year in question, please be aware that the only transferable programs are the Federal Pell Grant and the Florida Student Assistance Grant (FSAG). You must apply for a Federal Stafford Loan at UCF.

To apply for financial aid at UCF, complete all the application procedures listed with one exception. If a need analysis for the year in question has already been filed, the student need only request that the processor forward the information to UCF Code 003954 by utilizing Part II of your SAR.

To transfer the remainder of a Federal Pell Grant, students must contact the Federal Processor to request financial aid data be sent to UCF, Code 003954 by utilizing Part II of your SAR.

To transfer the remainder of an FSAG, send a copy of the state award letter and UCF's name and address to: State of Florida, Office of Student Financial Assistance, Department of Education Center, Tallahassee, FL 32399. Please do this before their stated deadline.

DUAL ENROLLMENT

Students who have been approved to take classes at another institution may have those hours counted toward meeting financial aid requirements at UCF by:
- Submitting to the Student Financial Assistance Office a legible copy of a completed UCF Transient Student form with all required signatures. The form is available from the department of your major. This will confirm that the hours will be accepted by UCF toward your degree.
- Submitting a copy of your registration form and/or invoice confirming that you actually enrolled for the hours appearing on your Transient Student form.
- Dual enrolled students must make arrangements for paying tuition and fees at the visited school, since there is no deferral mechanism. In addition, it is the student's responsibility to assure that the visited school promptly furnishes UCF with academic transcripts, confirming that the attempted hours are completed. Transcripts or grades should also be submitted to the Student Financial Assistance office. This will help avoid academic progress problems. Keep in mind, if you expect to receive funds under any of the Federal Loan Programs, you must enroll for a minimum of six hours at UCF in UCF classes to meet eligibility requirements.
- Also, please keep in mind that you may not receive financial aid from two institutions at the same time. You must decide which of the two institutions is your primary school at which you are degree-seeking and apply for aid there. Students will sometimes be paid aid at both schools if the schools are not aware of the dual application; however, a monitoring system has been put into place at the federal level to identify these students. This will result in a mandatory repayment back to one of the two schools for the overpayment.

INDEPENDENT STUDENT STATUS

The financial resources of parents/guardians 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
- accepted into a Graduate/Professional Program

UCF FINANCIAL ASSISTANCE PROGRAMS

First-time UCF students will receive an award letter. Other students will receive an award letter once their file is complete. Your admission to UCF must be finalized, you must be classified as Degree-Seeking, the verification process must be completed before a financial aid award will be disbursed, and you must be meeting the standards for Satisfactory Academic Progress. Other loan and employment programs not based on need are provided below.

Your awards will be based upon: your financial need (as determined by a federal formula applied to data provided on your applications), the amount of funds available to UCF, the number of UCF students who qualify for aid, as well as the date you complete the application process. The amounts listed on your award letter will be estimates based on full-time registration. Awards will be subject to change. Check the chart below to see in how many hours you must enroll for each semester in order 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, it is probable that the award will be deleted with no notice to the student.
<table>
<thead>
<tr>
<th>Priority Deadline</th>
<th>Minimum Credit Hrs. Required</th>
<th>Available to Graduate Students</th>
<th>Second Undergraduate Degree Seeking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Federal Pell Grant</strong>&lt;br&gt;You 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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before Jun 30 1998</td>
<td>Prorated based on hours</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Federal SEOG (Supplemental Educational Opportunity Grant)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>UCF Merit Award</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>FSAG (Florida Student Assistance Grants)</strong>&lt;br&gt;Read State information sheet, available from Student Financial Assistance, for residency requirements and application procedures; must maintain 2.0 GPA.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May 15</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Federal College Work Study</strong>&lt;br&gt;On campus jobs; award earned as hourly wage. Not available to post-baccalaureate students.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>FWEP (Florida Work Experience Program)</strong>&lt;br&gt;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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Varies</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Federal Stafford Loan Program</strong>&lt;br&gt;restitution may be deferred. Loan amounts vary as well as interest rates and repayments options.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Posted each term 6 at UCF in UCF classes</td>
<td>3 hours at UCF</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Federal Perkins Loans</strong>&lt;br&gt;are currently made at 5% interest rate; loans deferred until 6 or 9 months after you graduate or drop below ¼-time. Not available to post-baccalaureate students.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Scholarships</strong>&lt;br&gt;There is a broad range of scholarships available through federal, state, institutional, and private sources. Each has different eligibility criteria. Check with the Scholarship Office Handbook for more information. Inquire about ROTC scholarships at their office.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Varies year</td>
<td>Varies round</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Federal Unsubsidized Stafford Loans</strong>&lt;br&gt;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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Posted each term 6 at UCF in UCF classes</td>
<td>3 hours at UCF</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Federal Parent Loans to Undergraduate Students (PLUS)</strong>&lt;br&gt;These are loans which parents take out on behalf of their children (student must be dependent for financial aid purposes).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Varies</td>
<td>6 at UCF</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Federal Family Educational Loans are made through private lenders. Undergraduate and degree seeking PostBac students must be enrolled a minimum of 6 credit hours at UCF in UCF classes at the time of disbursement to receive a loan check. Graduate students must take 3 credits. First-time borrowers at UCF must attend an Entrance Interview before a loan will be processed. The times and location of Entrance Interviews will be posted. Entrance interviews may also be completed by accessing our website and going to Entrance Interviews. Exit interviews are required upon graduation, or when enrollment becomes less than one-half time at UCF. Half-time for Undergraduate and 5B students is 6 credits in UCF classes. Graduate students require 3 credits to maintain loan eligibility. Payment is deferred until students graduate or drop below 1/2-time enrollment at UCF. Once eligibility has been determined by a need analysis, students must complete and submit a Federal Stafford Loan Request Form by the dates printed below so that processing can be completed in time to receive funds during the term indicated.

October 15 - Fall Term Loan
February 15 - Spring Term Loan
June 15 - Summer Term Loan

Federal College Work Study jobs are awarded as part of a student’s financial aid package if need so indicates: a minimum of 6 hours enrollment is required for undergraduate and 3 hours for graduate students. Jobs are on/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 (FWEP) 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 Office of Cooperative Education, (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 Office of Cooperative Education, (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.

FICA and FUTA Exemption Guidelines for Undergraduate Students
The Internal Revenue Service (IRS) excludes certain types of student wages from the IRS definition of “employment” for purposes of Social Security and Medicare (FICA) and Federal Unemployment (FUTA) tax withholdings. The Internal Revenue Code (IRC) 3121[b][10][B] provides in part that wages paid by a university to one of its student employees who is enrolled full-time and regularly attending classes are exempt from the FICA and FUTA tax withholdings.

To be eligible for this IRC exemption, an undergraduate student must be (1) enrolled full-time at UCF, (2) regularly attending classes, and (3) employed for less than or equal to 20 hours/week as an undergraduate student assistant.

CRITERIA FOR EXEMPTION ELIGIBILITY
1. The Student Financial Assistance Employment Manual and Undergraduate Catalog provide definitions for determining full-time status of an undergraduate student. For the purpose of FICA and FUTA, in any given term, undergraduate students are considered full-time when they are registered for twelve hours in fall and spring terms, and nine hours in summer terms.
2. Undergraduate students are limited to working a maximum of 20 hours per week, regardless of the number of departments in which they are employed.
3. All undergraduate students who work more that 20 hour/week at UCF will continue to be classified as an “undergraduate student” but will be subject to employee FICA and FUTA taxes.

OTHER SERVICES
UCF Emergency Short Term Loans are available to currently enrolled students. Loans are granted at the beginning of the semester for books and emergencies. This is not for the payment of tuition and fees. A $5.00 non-refundable service charge will be assessed for processing the loan. This service charge, like other debts owed the University, will be deducted at the time of check disbursement. If the loan is canceled, or not picked up, the $5.00 service charge still must be paid. The specific repayment date of the loan is noted on the loan contract.

Food Service Loans are available to students who have already been awarded sufficient financial assistance to cover all debts owed the University and who live on campus. Food Service Loans are processed by Student Financial Assistance. A $5.00 non-refundable service charge will be assessed at the time of processing.
SCHOOL COSTS

Cost of Attendance 1998-99 (Full Time for Fall and Spring)

<table>
<thead>
<tr>
<th></th>
<th>OFF-CAMPUS</th>
<th>ON-CAMPUS</th>
<th>WITH-PARENTS/ RELATIVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$2,080</td>
<td>$2,080</td>
<td>$2,080</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>750</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>Room/Board</td>
<td>5,554</td>
<td>4,473</td>
<td>1,760</td>
</tr>
<tr>
<td>Personal Exp.</td>
<td>1,813</td>
<td>1,813</td>
<td>1,813</td>
</tr>
<tr>
<td>Transportation</td>
<td>1,823</td>
<td>424</td>
<td>1,823</td>
</tr>
<tr>
<td>Total (In State)</td>
<td>$12,020</td>
<td>$9,540</td>
<td>$8,223</td>
</tr>
<tr>
<td>Out-Of-State Fee</td>
<td>5,600</td>
<td>5,600</td>
<td>5,600</td>
</tr>
<tr>
<td>Total (O/S)</td>
<td>$17,620</td>
<td>$15,140</td>
<td>$13,826</td>
</tr>
</tbody>
</table>

DEFERRALS OF TUITION AND FEES

Financial assistance awards will normally result in the student being granted a deferment of tuition and fee payments. This process occurs automatically if the student has enrolled for sufficient hours, is meeting all general eligibility requirements, and is making satisfactory academic progress. 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 are made, which is normally three (3) to four (4) weeks after the semester begins. Students registering for classes during Early Registration must pay or be deferred for tuition and fees EARLY, prior to the beginning of classes. Students who do not pay their fees or have a valid deferment before the early due date will be dropped from their classes.

- Your fee invoice (class schedule) reflects the dollar amount of your deferment at the time of printing. You should use the Direct Access Phone System to obtain up-to-date information. 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 (class schedule). Different financial assistance programs require different hours of enrollment for eligibility. Make sure you are registered for the required number of hours. Students must register for at least 12 hours during the Fall or Spring to receive a FSAG, FSEOG, and UCF Grants; 6 hours to receive a Federal Pell, Federal Stafford, and Federal Perkins award. (Note: Undergraduate and S5 students must have 6 hours at UCF in UCF classes for the Federal Stafford loans. Graduate students need 3 credits.) Some students may receive a Pell Grant for less than 6 hours. Summer enrollment requirements may be less.
- 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 estimated Stafford loans will be canceled if the student does not complete the loan process.
- Financial aid deferments based on federal or state programs that require a FAFSA will not be available to students who do not complete a FAFSA in time for the results to be in UCF’s computer system by fee deadline dates. Federal loans cannot be processed without FAFSA data on line to support the award.

NOTE: Both Subsidized and Unsubsidized Federal Stafford Loans will result in a deferment in the amount of 96% of the award, since origination fees are taken out by the lender and the guarantee agent in the amount of 4%. It is the responsibility of the student to properly drop classes prior to the end of the add/drop period. Additionally, under any circumstance where previously estimated financial aid cannot be paid and a deferment must be canceled, the student is liable for the cost of tuition, whether or not he/she attended classes. If classes are not dropped by the student, a financial aid deferment may keep them active. The student will be responsible for payment of these classes even if they never attended, and may receive a grade of “F.”

FUND DISBURSEMENTS

Financial assistance disbursements are not available at the time of registration. Funds will be disbursed after the third week of classes. Therefore, students should make themselves aware of the Automatic Deferral policies and procedures and be prepared to use personal savings or a UCF Short Term Loan for books and other expenses anticipated. 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 assistance funds for most programs are mailed directly to the student by the UCF Office of Student Accounts. Initial disbursements should take place after the third week of each semester. Most grant and scholarship checks go through a “net checking” process in which debts owed to the University are deducted from the available assistance. Federal Stafford Loan disbursements will also go through the “net checking” process, if two conditions are met: 1) the student has authorized Electronic Funds Transfer (EFT) on the promissory note and, 2) the student’s lender participates in
For most students who do not participate in EFT, Federal Stafford checks 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 and PostBac ("SB" certification only) students must be enrolled in at least 6 credit hours at UCF in UCF classes at the time of disbursement of each Federal Stafford Loan check. Graduate students need 3 credits. Borrowers under the Federal Stafford program who have not yet successfully completed their first year of undergraduate study cannot receive their initial checks until 30 days into the semester.

NOTE: The verification process must be complete before financial assistance funds will be released. Students on Financial Assistance Cancellation will not receive funds.

Federal Stafford Loans
Your student loan check(s) or EFT disbursements will be sent to the University of Central Florida after your lender has received a completed application/promissory note approved by UCF. 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. Please note 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 10 working days from the first day of classes before inquiring about your funds. If the date is after the semester begins, please allow 10 working days from the disbursement date for UCF processing. Loan checks or funds will be disbursed after the beginning of classes, usually after the third week of classes.

- **First-time borrowers at UCF:** Must attend an Entrance Interview at UCF before the loan award can be made. The times and location of Entrance Interviews will be posted. Sessions may also be available at orientation and on our website: [http://pegasus.cc.ucf.edu/~finaid/](http://pegasus.cc.ucf.edu/~finaid/)
- **Two-term loans:** To receive the second half of a two-term loan, you must have received the first disbursement, and be enrolled for at least 6 hours at UCF (graduates-3 hours) for the second semester to receive the second check. If you did not accept your first term loan disbursement, you cannot receive the second term disbursement. You must cancel the original loan request and reapply for a new loan through Student Financial Assistance.
- **One-term loans:** Disbursement of a one-term loan will be divided into two payments. You must maintain eligibility throughout the term to be eligible for each disbursement. The second disbursement cannot be made until at least 1/3 of the term is over.
- Students who have not successfully completed their first year of undergraduate study (i.e., First Year Freshman-1F) will not receive their funds until 30 days after classes have begun.
- **Summer Term:** Undergraduate students must have a minimum of 6 hours at UCF in UCF classes to receive assistance. If your hours include Summer B hours which are needed to meet the minimum requirements, funds will not be disbursed until Summer B term. Graduates require 3 credits.

EXIT INTERVIEWS ARE REQUIRED UPON GRADUATION OR DEPARTURE FROM UCF. BE SURE TO FILE ADDRESS CHANGES WITH THE REGISTRAR'S OFFICE AS THEY OCCUR IN THE IMMEDIATE AND DISTANT FUTURE.

In the spring of each year, most students will be notified of the estimated awards they should receive in the coming school year. Award notices may not go out to students who were selected for verification, and have not completed that process, since verification corrections often alter award eligibility. Notification will also not go out to students who have been canceled from financial assistance due to a problem with academic progress. Award letters which are sent out anytime prior to the beginning of the semester will disclose estimated awards based on the enrollment information provided by the student on the FAFSA. If the student enrolls for less than 12 hours, some estimated awards may change. In addition, new information brought to the attention of our office (such as third party benefits, waivers or deferrals, prepaid tuition plans, or newly awarded scholarships) can cause a reduction in the amount of previously estimated need-based assistance.

Award letters are eventually sent out to students who miss the application priority deadline once there is enough information on file to make an awarding decision. Verification students will receive their award notifications once that process is complete. Regardless of when the notification is sent out, it will be accompanied by a comprehensive information insert. **Students should read this insert carefully and follow the instructions.**
Only students receiving Perkins Loans are required to return signed appropriate documents of receipt to acknowledge acceptance of the award. Please note that although an estimated Federal Stafford loan may appear on the award letter to notify students that they are eligible for that form of assistance, a student must still apply for the loan by completing the requested information on the Federal Stafford Loan Response Form.

Awarding of a financial aid package involves matching your student budget with the Estimated Family Contribution (EFC) which is calculated from your FAFSA information. We attempt to award you as much of the difference (your unmet need) as possible. From time to time, we will establish an aid package for a student and later the budget or EFC changes or aid will come in from some unexpected source (such as a scholarship). This may result in what is called an Overaward. If no adjustment to the aid package occurs and the financial aid is actually paid, this is called an Overpayment. State and federal regulation require adjustment or repayment of overawards and overpayments for many programs. If you receive notification of scholarship or other third-party payment after receipt of your award notice, please notify us. We may be able to correct an overaward before it becomes an overpayment. If an overpayment does occur, we will notify Student Accounts and you will be required to work with them on a repayment.

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

Refunds
Financial assistance recipients planning to withdraw from UCF should first consult the University’s Withdrawal Policy published under Academic Policies and Procedures in the UCF Catalog. If the student is due a refund according to this policy, the financial assistance program(s) from which the student received assistance will first be reimbursed. Any remaining balance after refunding all appropriate assistance programs will be refunded to the student. In no case will the amount refunded to the assistance program exceed the amount disbursed.

Repayment
A portion of the financial assistance disbursed to the student for non-instructional costs may have to be repaid by the student to the University. The amount of repayment due from the student will be based upon the schedule printed below. A student who owes a financial assistance repayment will not be allowed to receive further financial aid funds until the repayment is paid in full. In addition, academic transcripts will be withheld until repayment is complete.

<table>
<thead>
<tr>
<th>Fall and Spring Terms</th>
<th>Amount of repayment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week of withdrawal</td>
<td></td>
</tr>
<tr>
<td>1st week</td>
<td>100% of total aid* received</td>
</tr>
<tr>
<td>2nd or 3rd</td>
<td>75% of total aid* - book allowance - tuition and fees</td>
</tr>
<tr>
<td>4th or 5th week</td>
<td>50% of total aid* - book allowance - tuition and fees</td>
</tr>
<tr>
<td>6th or 7th week</td>
<td>25% of total aid* - book allowance - tuition and fees</td>
</tr>
<tr>
<td>8th week or after</td>
<td>No repayment due</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer A, B and C Terms</th>
<th>Amount of repayment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week of withdrawal</td>
<td></td>
</tr>
<tr>
<td>1st week</td>
<td>100% of total aid* received</td>
</tr>
<tr>
<td>2nd week</td>
<td>75% of total aid* - book allowance - tuition and fees</td>
</tr>
<tr>
<td>3rd week</td>
<td>50% of total aid* - book allowance - tuition and fees</td>
</tr>
<tr>
<td>4th week or later</td>
<td>No repayment due</td>
</tr>
</tbody>
</table>

*Total aid excludes moneys received from the following programs: Federal College Work Study, Federal Stafford Loans, and Federal Parent Loans for Students.

Students should schedule an appointment with or come to the Student Financial Assistance Office prior to withdrawing from classes to confirm the consequences of that withdrawal. The appointment number is (407) 823-5285.

> You must enroll for a minimum of six semester hours. Three hours are required for graduate students to receive Federal Stafford Loans. Twelve hours are required for some programs including FSAG and most Scholarships. However, Pell Grants may be paid on less than six hours of enrollment.
> You must maintain UCF’s standards for Satisfactory Academic Progress (following section).
> You agree to inform us of any additional assistance you receive beyond that listed on your award.
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. For enrollment certification purposes, all post-baccalaureate and other non-degree students will be considered as undergraduate students to remain in good standing. The factors required to measure satisfactory progress are as follows:

1. Grade Point Average - GPA is monitored at the end of each term.

Undergraduate
A. GPA
Freshman/Sophomore
No minimum GPA is required as long as the student is not disqualified or excluded by the Registrar's Office. (See Academic Policies)
Junior/Senior/Second Degree/Certification
A minimum GPA of 2.0 is required and the student must not be disqualified or excluded by the Registrar's Office.
B. Disqualified/Excluded
When students are disqualified or excluded by the Registrar's Office, they will automatically be placed on Financial Aid Cancellation. Upon readmission to UCF, students MUST appeal separately to the Student Financial Assistance Office to be considered for Financial Aid reinstatement.
Graduate
A GPA of at least 3.0 is required for those courses specified in the graduate student's program. See Academic Standards in the Graduate Catalog.

2. Hours Completed - At the end of each academic year, hours completed are monitored for the previous three terms (summer, fall, and spring). Students are required to complete a specified number of credits as determined by their enrollment status. (See chart below):

<table>
<thead>
<tr>
<th>Undergraduate, Post-Baccalaureate, and Other Non-Degree</th>
<th>Attempted Hours</th>
<th>Required to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
<td>12 or more</td>
<td>10</td>
</tr>
<tr>
<td>3/4 time</td>
<td>9, 10, 11</td>
<td>8</td>
</tr>
<tr>
<td>1/2 time</td>
<td>6, 7, 8</td>
<td>5</td>
</tr>
<tr>
<td>Graduate</td>
<td>Attempted Hours</td>
<td>Required to Complete</td>
</tr>
<tr>
<td>Full time</td>
<td>6 or more</td>
<td>5</td>
</tr>
<tr>
<td>1/2 time</td>
<td>3, 4, 5</td>
<td>3</td>
</tr>
</tbody>
</table>

Successful completion of a class is defined as earning a grade of A, B, C, D or S. Unsuccessful completion is defined as earning a grade of F, W, I, WP, WF, X, N, U, or NC.

3. Time Limit - When a student meets or exceeds the number of allowed Overall Attempted Hours, they will be placed on Financial Aid Cancellation at the end of the term. (Even if financial aid was not received during previous terms.)
Classification | Time Frame Allowed for Completing Degree
--- | ---
Undergraduate | 180 Overall Attempted Hours (including transferred hours)
Second Degree | 60 Overall Attempted Hours (including all Post-Bac hours)
Master's | 70 Overall Attempted Hours (including all Post-Bac hours)
Specialist | 100 Overall Attempted Hours (including all Graduate and Post-Bac hours)
Doctorate | 120 Overall Attempted Hours (including all Graduate and Post-Bac hours)

**PROBATION**

If students are placed on Financial Aid Probation, they must complete the following requirements for the term in which they are on probation. Failure to do so will result in Financial Aid Cancellation at the end of the probationary term. Students on probation must complete the minimum required hours as defined above in "2." for that term, with a minimum Term GPA of 2.0.

**PROCEDURE FOR APPEALS**

If students do not meet the above standards, they will be placed on Financial Aid Cancellation. When students are on Financial Aid Cancellation, they are not eligible for aid, nor a deferment, until 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 before the established deadline.
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. Aid remains canceled unless the student receives written notification of reinstatement.

**RE-ESTABLISHING ELIGIBILITY**

Students may re-establish financial aid eligibility by enrolling, on their own, for at least 6 hours at UCF or any other accredited institution and complete required hours (see chart above) with a minimum TERM GPA of 2.0. Students will need to appeal at the end of that term for reinstatement of aid for the following term.

**FINANCIAL ASSISTANCE FOR GRADUATE STUDENTS**

There are several sources of financial assistance available to UCF graduate students. Federal Perkins and Federal Stafford loans and the Federal College Work Study Program described previously, require that financial need be established by filing the FAFSA.

Out-of-State Tuition Waivers are offered by each college and the Office of Multicultural Student Services to non-Florida residents. Some colleges give priority to graduate students in making award selections.

Eligibility and application guidelines for Teaching or Research Assistantships and Graduate Assistant positions are established by the colleges or in some cases by departments, as are pay scales. To apply for an assistantship position, contact the respective Dean's Office in the College of Business Administration or Education or the department's graduate coordinator in the College of Arts and Sciences, Engineering, or Health and Professional Studies.

There are also scholarships available to graduate students. Check the monthly scholarship listing posted on the bulletin board outside the Student Financial Assistance Office.

Federal Perkins and Federal College Work Study are available only to students who are fully admitted into a Graduate Program. Post-Baccalaureate students are not eligible for these assistance programs.

**STUDENT RIGHTS AND RESPONSIBILITIES**

- Students have the right to full information about the financial aid programs available at UCF, our 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.
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 Dean of Students Office as outlined in The Golden Rule.

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 your concern, help you explore options, offer suggestion and advice, and assist in the resolution of your 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 the Administration Building, Room 338F. Appointments may be made by calling (407)-823-6440.

STUDENT CLASSIFICATIONS

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

Freshman: Through 29 semester hours
Sophomore: 30-59 semester hours
Junior: 60-89 semester hours and have fulfilled CLAST and Golden Rule requirements
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-bacc 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 Cooperative Education Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op school calendar: a co-op student is either on assignment or attending class during each school semester. (See Veterans' Benefits for co-ops.)
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 is permitted to register and attend class pending completion of the admission file
Transient: Students temporarily registered (for one semester) at the University of Central Florida with the approval of some other 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 Associate of Arts degree is to be awarded.
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 2.0 GPA ("C" average) or better at the end of the first semester of attendance, the provisional status will be removed. Earning less than a "C" average the first term would result in disqualification.

SEMESTER HOURS DEFINED
The graduation credit value of each course of instruction is stated in terms of semester hours. A semester hour of credit 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 period during the summer semester. During this shortened semester, two and a half class hours of work (or four or more laboratory hours of work) per week are required to represent a semester hour of credit.

DUAL USAGE OF CREDIT HOURS
Courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Contact your advisor or college for specific program requirements or additional information.

MAXIMUM COURSE LOAD
The University reserves the right to establish maximum course loads for students at any level. Course load limitations will be published in the term Schedule of Classes and made available prior to the beginning of the term.

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

Grades
A — Excellent 4 grade points
B — Good 3 grade points
C — Average 2 grade points
D — Passing 1 grade point
F — Failure 0 grade point
NC — No Credit 0 grade point*

* Available only in ENC 1101, ENC 1102 and STA 2014.

Other Actions
I — Incomplete 0 grade point
N — No grade reported by professor 0 grade point
R — (followed by grade) Repeated course (grade forgiveness) 0 grade point
S — Satisfactory (w/credit)/Satisfactory Progress (Research, Thesis, or Dissertation) 0 grade point
T — (followed by grade) Subsequently repeated (no credit) 0 grade point
U — Unsatisfactory (no credit) 0 grade point
W — Withdrawn 0 grade point
WF — Withdrawn Failing 0 grade point
WH — Health Form Withdrawal 0 grade point
WM — Medical Withdrawal 0 grade point
WP — Withdrawn Passing 0 grade point
X — Audit (no credit) 0 grade point

The grade point average (GPA) is the average number of grade points per semester hour attempted and 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 grade point average for graduation requirement is 2.0 ("C") and will be computed on both the student’s total academic program and the UCF program.

The designation of "N" will be temporarily assigned by the Registrar’s Office only in the case when a grade has not been submitted by the faculty by the "grades due" deadline. The designator will be replaced by the earned letter grade at the earliest opportunity in the semester which immediately follows. The "N" designator may not be assigned by faculty.
A request for grade change will be considered only during the term immediately following the one in which the grade was assigned, except that grades assigned during the spring semester may be changed during either the following summer or fall terms. Academic Actions do not change when an incomplete grade is completed nor when a course is repeated. A change in a grade must be approved by the Dean of the college. A grade will not be changed after a degree has been conferred.

**EXCESS HOURS**

Excess hour surcharges are assessed when students enroll in courses that exceed 15% of the minimum credit hours required to complete the degree. For example, if the degree requires 120 hours of credit, then students are permitted to take 138 credit hours (120 hours + 18 hours) before they are assessed a surcharge for excess hours.

**THIRD ATTEMPT SURCHARGES**

All students enrolled in undergraduate courses for the fall 1998 term are subject to surcharges when they enroll in a course three or more times. Completed courses, withdrawals, and courses with incomplete grades are counted as attempts, including courses repeated in order to raise a GPA or achieve a specific grade.

**ACADEMIC STANDING**

All Academic Actions are shown on grade reports and transcripts. 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 on the Change of Grade request form by the professor.

<table>
<thead>
<tr>
<th>Semester Average:</th>
<th>Grade Point Average on work attempted during any given semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCF Average:</td>
<td>Grade Point Average on all work attempted while in attendance at the University of Central Florida</td>
</tr>
</tbody>
</table>

**Academic Warning:** Some first-time-in-college applicants who do not meet university admission requirements may be admitted on Academic Warning. By obtaining a 2.0 GPA ("C" average) or better at the end of the first semester of attendance, Academic Warning will be removed. Earning less than a "C" average the first term will result in Academic Probation. A student may be on Academic Warning only once.

**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.

**Disqualified (First Suspension):** A student on Academic Probation is disqualified upon failure to achieve a 2.0 GPA during the subsequent semester. 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 cannot make a favorable decision, cases will be referred to the Admissions and Standards Committee.

**Exclusion (Second Suspension):** A student readmitted following disqualification who fails to achieve a 2.0 GPA is excluded from the University. Exclusion is most serious and readmission will not be considered prior to a minimum suspension period of one year.

**Readmission:** If a student has dropped out of the University for any reason, he or she must reapply on the appropriate form (see calendar for deadline). First-time-in-college students may be admitted on Academic Warning (see above) or Academic Probation at the discretion of the Admissions Office. Transfer students may be admitted on Academic Probation at the discretion of the Admissions and Standards Committee. Academic Probation is intended to inform students making unsatisfactory progress of their need to alter study habits and to 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.

**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 wishes to observe a religious holy day of his or her religious faith will notify all of his/her instructors and be excused from class 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
EARNING CREDIT WHILE DISQUALIFIED OR EXCLUDED

Students disqualified or excluded while a Freshman or Sophomore who subsequently receive an A.A. degree with a "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.

INCOMPLETE GRADE

A grade of "I" (incomplete) is assigned by the instructor when a student is unable to complete a course due to extenuating circumstances, and when all requirements can 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 can not graduate from the University with an "I" on the transcript. The incomplete must be changed within twelve months of the last day of the semester or prior to graduation from the University, whichever comes first. Unresolved incomplete grades will automatically be changed to "F" by the Registrar.

SCHEDULE CHANGES — ADD/DROP POLICY

Add: A student may add a course during the official Add/Drop period (the first three to five days of each term, as listed in the academic calendar). After the Add/Drop period, no course may be added.

Drop: A student may drop a course during the official Add/Drop period. The fact that the student was enrolled in a class so dropped will not appear on the permanent record. For withdrawal after the Add/Drop period, the Withdrawal Policy must be consulted.

Withdrawal Policy

A student may withdraw from a class and receive the notation of "W" until the end of the eighth week of any regular semester or until the midpoint of any summer term in the Registrar's Office, Administration Building 161.

A student is never automatically withdrawn from a class for not attending, nor can an instructor withdraw a student from a class. Upon request, however, 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 who need to petition for a late withdrawal should consult Enrollment and Academic Services, Administration Building, Room 210. At the time of the request an Assistant Dean from Enrollment and 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 are normally for all courses taken in the semester.

Students who seek withdrawal because they are ill must apply for the withdrawal during 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 Enrollment and 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.

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 (the procedure used for calculating is further defined in the paragraph titled "Grading System" earlier in this section).

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.

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. Source: The Golden Rule.
TRANSIENT ENROLLMENT AT OTHER INSTITUTIONS

A UCF degree-seeking student who wishes to earn credit at another college or university for transfer back into a degree program must obtain prior approval for specific courses from the Dean or Department Chair of his/her respective college. Approval of courses for the General Education Program should be obtained from Enrollment and Academic Services. Credit earned without this transient approval may not be accepted. Because of graduation certification, students may not take courses in transient status during the term in which they expect to graduate. Transient forms are available in the college of the student's major. 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.

GRADE FORGIVENESS

Policy Limits: Grade forgiveness is limited to two courses.
- Grade forgiveness can be used only for courses taken at UCF. Grade forgiveness is not retroactive, and therefore may not be used for a course repeated before Fall 1981.
- UCF does not honor grade forgiveness granted at other institutions unless it is part of an Associate of Arts degree transferred to UCF from a Florida public community college or university. Because of the two-course limit, a student who has used grade forgiveness twice at another institution, and has included those courses in the transfer of an Associate of Arts degree may not use grade forgiveness again at UCF.
- A course taken at UCF may not be repeated at another institution for forgiveness by UCF.
- Grade forgiveness may not be used twice for the same course.
- Registration for grade forgiveness must be completed by the end of the Add/Drop period in the term in which the course is repeated.

If a student withdraws from a course repeated under the Grade Forgiveness Policy or receives an incomplete in the course, the attempt will count as one of the two allowable attempts. However, the original grade will not be replaced with the "I" or the "W" received in the repeat attempt. The student may not petition a second time for the same course.

General Policy

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 has subsequently been repeated, and the repeat course grade will be marked with an "R." The original grade will not be computed in the grade point average except in a case in which the student withdraws from a course he/she is repeating or takes a grade of incomplete.

With prior approval of the Dean of the college in which the course is offered, the student may substitute a course different from the original one if (1) the substitute course has been changed in prefix, number, hours, or title, but not in substance, or (2) the substitute course replaced a course no longer offered by UCF.

Grade forgiveness awarded for repeated courses will not retroactively alter any previous academic action. For example, a Probation or Disqualification status will not be removed from the records of the quarter or semester in which the student originally took the course. In addition, no academic records can be altered after a student graduates. If it is determined that the student is ineligible for the forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made.

Procedure

Students who wish to exercise Grade Forgiveness must complete the following steps before registering to repeat a course:
1. Complete a "Grade Forgiveness Request Form" from the Registrar's Office for each course to be repeated.
2. If the course is a substitution for the original one (see above), secure the signature of the Dean of the college in which the course is offered.
3. Turn the completed form in to the Registrar's Office no later than the last day of Add/Drop. No petitions will be accepted after the deadline.

NOTE: Repeated Enrollment in Same Course: Beginning with the fall term, 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.

Any questions about Grade Forgiveness should be directed to Enrollment and Academic Services, AD 210, Phone (407) 823-2691.

ACADEMIC HONORS

1. 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 pass-fail course work, and maintain a 4.0 GPA with no incomplete or "U" grades for the given term or who
complete 15 semester hours during any two consecutive terms at UCF with no more than 11 hours in any one term, excluding pass-fail work, and maintain a 4.0 GPA for the two terms.

Hours utilized in the awarding of a President's Honor Roll Certificate may not be utilized in the determination of a subsequent certificate.

2. Dean's List
The Dean's List is compiled in recognition of scholastic honors for students who earn a 3.4 GPA with no grade less than "C" and no incomplete or "U" grades during a term. To be eligible for the Dean's List students must register for and complete a minimum of 12 semester hours in a fall or spring semester or 9 semester hours in a summer semester at UCF.

3. Baccalaureate Honors
The University shall confer baccalaureate honors recognition on those students who have completed a minimum of 48 semester hours at UCF. Honors recognition is based on the grade point average earned in the semesters that comprise the last 48 hours. Hours earned in these semesters may actually exceed the 48 hour requirement.

Students must attain a UCF grade point average which is in the upper 10% of the range established by all students graduating in the same college during the previous two years. The grade point average earned in the semesters that comprise the last 48 UCF hours must be 3.2 or higher.

Honors awarded will be:
1. Summa Cum Laude for those students in the upper 2.5%
2. Magna Cum Laude for those students in the upper 5%, but not in the upper 2.5%
3. Cum Laude for those students in the upper 10%, but not in the upper 5%

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

TIME-SHORTENED DEGREE 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 which may be used include the College Level Examination Program (CLEP), the Advanced Placement Program (AP), the International Baccalaureate, University Course Credit by Examination, and DANTES.

College Level Examination Program (CLEP)
The University of Central Florida grants university credit for examinations taken under the CLEP program provided the score obtained is at the 50th percentile or above on the National Sophomore CLEP norms. The University of Central Florida will award up to 45 semester hours of university credit under the CLEP program.

CLEP credit may be earned by the following methods — CLEP general examinations, CLEP general examination subtests, and CLEP subject examinations. A student may earn a maximum of 45 semester hours of credit through this program. Successful completion of CLEP examinations means performance at or above the minimum qualifying score.

Awarding of CLEP credit is subject to the conditions listed below.
• Credit may be awarded in the CLEP general examination, CLEP general subtest area, or 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 semester the examination is taken or in a subsequent semester, (d) has not previously completed 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.
• Partial credit may be awarded in Humanities and Social Science-History general examinations to students who have course duplication in one subtest area but not in the other subtest area. For example, a student who has completed Humanities but has not completed Introductory Literature or a more advanced literature course would be eligible to receive credit in the literature subtest area, provided that he/she receives a satisfactory total score and a satisfactory subtest score.
The following table provides information related to the CLEP general examination areas and subtest areas for which credit may be awarded. In addition, this table delineates the number of credit hours per examination, and the minimum qualifying score. A table is also provided which contains information about CLEP subject examinations. The table delineates CLEP subject examinations which are available, qualifying scores for each examination, the UCF course for which each examination can substitute, and semester hours which will be awarded.

It is important to note that 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. In addition, 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.

**CLEP GENERAL EXAMINATIONS**
Qualifying scores on CLEP General Examinations earn only general (lower division) elective credit.

<table>
<thead>
<tr>
<th>CLEP General Examination</th>
<th>Qualifying Score</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition with Essay*</td>
<td>500</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>489</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>497</td>
<td>6</td>
</tr>
<tr>
<td>Natural Science</td>
<td>500</td>
<td>6</td>
</tr>
<tr>
<td>Biological Science</td>
<td>489</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science</td>
<td>497</td>
<td>6</td>
</tr>
<tr>
<td>Social Science</td>
<td>490</td>
<td>6</td>
</tr>
</tbody>
</table>

*The General Examination in English Composition with Essay is not given in July or August.*

**CLEP SUBJECT EXAMINATIONS**

<table>
<thead>
<tr>
<th>CLEP Subject Exam</th>
<th>Semester Hours</th>
<th>Qualifying Score</th>
<th>UCF Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afro-American History</td>
<td>3</td>
<td>50</td>
<td>None</td>
</tr>
<tr>
<td>American Government</td>
<td>3</td>
<td>50</td>
<td>POS 2041</td>
</tr>
<tr>
<td>American History I***</td>
<td>3</td>
<td>49</td>
<td>AMH 2010</td>
</tr>
<tr>
<td>American History II***</td>
<td>3</td>
<td>49</td>
<td>AMH 2020</td>
</tr>
<tr>
<td>American Literature***</td>
<td>6</td>
<td>50</td>
<td>AML 3031 &amp; AML 3051</td>
</tr>
<tr>
<td>Analysis &amp; Interp Lit***</td>
<td>6</td>
<td>51</td>
<td>ENC 1101 &amp; LIT 2000</td>
</tr>
<tr>
<td>Calculus w/Elem Functions</td>
<td>4</td>
<td>49</td>
<td>MAC 2311</td>
</tr>
<tr>
<td>Calculus w/Analytic Geo</td>
<td>3</td>
<td>49</td>
<td>MAC 2253</td>
</tr>
<tr>
<td>Clinical Chemistry **</td>
<td>4</td>
<td>50</td>
<td>MLS 4630</td>
</tr>
<tr>
<td>College Algebra</td>
<td>3</td>
<td>48</td>
<td>MAC 1104</td>
</tr>
<tr>
<td>College Algebra &amp; Trig</td>
<td>3</td>
<td>50</td>
<td>MAC 1114</td>
</tr>
<tr>
<td>College Comp w/Essay***</td>
<td>6</td>
<td>50</td>
<td>ENC 1101 &amp; ENC 1102</td>
</tr>
<tr>
<td>Info Sys &amp; Comp Apps</td>
<td>3</td>
<td>51</td>
<td>CGS 1060</td>
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<tr>
<td>Educational Psychology</td>
<td>3</td>
<td>49</td>
<td>ENL 2012 or ENL 2021</td>
</tr>
<tr>
<td>English Literature***</td>
<td>6</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Freshmen English w/Essay***</td>
<td>6</td>
<td>51</td>
<td>ENC 1101 &amp; ENC 1102</td>
</tr>
<tr>
<td>General Biology ****</td>
<td>6</td>
<td>49</td>
<td>BSC 1020</td>
</tr>
<tr>
<td>General Chemistry ****</td>
<td>6</td>
<td>50</td>
<td>CHM 1020 &amp; 1032 or CHS 1440</td>
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<tr>
<td>General Psychology</td>
<td>3</td>
<td>50</td>
<td>PSY 2013</td>
</tr>
<tr>
<td>Hematology **</td>
<td>4</td>
<td>51</td>
<td>MLS 3305</td>
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<tr>
<td>Human Growth and Development</td>
<td>3</td>
<td>51</td>
<td>None</td>
</tr>
<tr>
<td>Immunohematology **</td>
<td>4</td>
<td>50</td>
<td>MLS 4550</td>
</tr>
<tr>
<td>Introduction to Accounting</td>
<td>3</td>
<td>50</td>
<td>ACG 2001</td>
</tr>
<tr>
<td>Intro to Business Law</td>
<td>6</td>
<td>51</td>
<td>None</td>
</tr>
<tr>
<td>Intro to Management</td>
<td>3</td>
<td>49</td>
<td>None</td>
</tr>
<tr>
<td>Intro to Macroeconomics</td>
<td>3</td>
<td>50</td>
<td>ECO 2013</td>
</tr>
<tr>
<td>Intro to Microeconomics</td>
<td>3</td>
<td>50</td>
<td>ECO 2023</td>
</tr>
<tr>
<td>Intro to Marketing</td>
<td>3</td>
<td>50</td>
<td>MAR 3023</td>
</tr>
<tr>
<td>Intro to Sociology</td>
<td>6</td>
<td>50</td>
<td>SYG 2000</td>
</tr>
<tr>
<td>Examination</td>
<td>Passing Score</td>
<td>Semester Hours Awarded</td>
<td>UCF Courses</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------</td>
<td>------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Biology</td>
<td>3-5</td>
<td>3</td>
<td>BSC 1020</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3-4</td>
<td>4</td>
<td>CHM 2045</td>
</tr>
<tr>
<td>Computer Sci A</td>
<td>4-5</td>
<td>3</td>
<td>no direct equivalent</td>
</tr>
<tr>
<td>Computer Sci AB</td>
<td>4-5</td>
<td>3</td>
<td>ENC 1101</td>
</tr>
<tr>
<td>Eng Lang &amp; Comp</td>
<td>3</td>
<td>3</td>
<td>ENC 1101 &amp; 1102</td>
</tr>
<tr>
<td>Eng Lit &amp; Comp</td>
<td>4-5</td>
<td>6</td>
<td>LIT 2110</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3-5</td>
<td>3</td>
<td>ECO 2023</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3-5</td>
<td>3</td>
<td>ECO 2013</td>
</tr>
<tr>
<td>French Language</td>
<td>3</td>
<td>3</td>
<td>FRE 3420</td>
</tr>
<tr>
<td>French Literature</td>
<td>4-5</td>
<td>6</td>
<td>FRW 3100</td>
</tr>
<tr>
<td>German</td>
<td>3</td>
<td>3</td>
<td>GER 1120</td>
</tr>
<tr>
<td>U.S. History</td>
<td>3-5</td>
<td>3</td>
<td>AMH 2010</td>
</tr>
<tr>
<td>European History</td>
<td>3-5</td>
<td>3</td>
<td>EUH 2000</td>
</tr>
<tr>
<td>Psychology</td>
<td>3-5</td>
<td>3</td>
<td>PSY 2013</td>
</tr>
<tr>
<td>Latin (Virgil)</td>
<td>3-5</td>
<td>3</td>
<td>no direct equivalent</td>
</tr>
<tr>
<td>Latin Literature</td>
<td>3-5</td>
<td>3</td>
<td>no direct equivalent</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3-5</td>
<td>8</td>
<td>MAC 2311 &amp; MAC 2312</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3-5</td>
<td>12</td>
<td>MAC 2311, 2312, &amp; 2313</td>
</tr>
<tr>
<td>U.S. Gov. &amp; Politics</td>
<td>3-5</td>
<td>3</td>
<td>POS 2041</td>
</tr>
<tr>
<td>Comp. Gov. &amp; Politics</td>
<td>3-5</td>
<td>3</td>
<td>CPO 3103</td>
</tr>
<tr>
<td>Music Theory</td>
<td>3-5</td>
<td>4</td>
<td>MUT 1111 &amp; 1241</td>
</tr>
<tr>
<td>Physics B</td>
<td>3</td>
<td>3</td>
<td>PSC 1121</td>
</tr>
<tr>
<td>Physics C</td>
<td>3-4</td>
<td>4</td>
<td>PHY 2053</td>
</tr>
<tr>
<td>(Mechanics)</td>
<td>5</td>
<td>3</td>
<td>PHY 2053C</td>
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<tr>
<td>Physics C</td>
<td>3-4</td>
<td>4</td>
<td>PHY 2048</td>
</tr>
<tr>
<td>(Electricity and Magnetism)</td>
<td>5</td>
<td>3</td>
<td>PHY 2054C</td>
</tr>
</tbody>
</table>

*Those students receiving six or nine hours are allowed to complete these courses.

**Each student must also satisfactorily complete a lab and an essay exam. Both exams will be given by the College of Health.

***Satisfactory completion of these exams does not reduce the 24,000 word requirement of the Gordon Rule.

****Does not satisfy General Education Program science laboratory requirement.

ADVANCED PLACEMENT EXAMINATIONS

Students who have participated in the Advanced Placement Program in high school and received a score of three, four, or five 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.
### INTERNATIONAL BACCALAUREATE PROGRAM

Students who have participated in the International Baccalaureate program in high school may receive a maximum of thirty hours of credit for scores of 4 or higher in the subsidiary and higher level program areas.

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Qualifying Score</th>
<th>Credit Awarded</th>
<th>UCF Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applied Chemistry</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4</td>
<td>3</td>
<td>CHM 1020</td>
</tr>
<tr>
<td>Subsidiary Level</td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>CHM 1020 &amp; CHM 1032</td>
</tr>
<tr>
<td><strong>Art Design</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>ART 2300C</td>
</tr>
<tr>
<td><strong>Biology</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>BSC 1020 &amp; BID 1000</td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>CHM 1020</td>
</tr>
<tr>
<td>Subsidiary Level</td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>CHM 1020 &amp; CHM 1032</td>
</tr>
<tr>
<td><strong>Computing Studies</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3, 7</td>
<td>COP 2213</td>
</tr>
<tr>
<td><strong>Economics</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>ECO 1000 &amp; ECO 2023</td>
</tr>
<tr>
<td><strong>English A</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>ENC 1101</td>
</tr>
<tr>
<td><strong>English B</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4, 5, 6, 7</td>
<td>3, 6</td>
<td>ENC 1101 &amp; ENC 2906</td>
</tr>
<tr>
<td><strong>Environmental Systems</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>FRE 3420, SPN 3420, GER 3420</td>
</tr>
<tr>
<td><strong>Foreign Languages B</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>FRW 3100, SPW 3100</td>
</tr>
<tr>
<td>Subsidiary Level</td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>No direct equivalent</td>
</tr>
<tr>
<td><strong>Geography</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>6</td>
<td>GEO 1200 &amp; GEO 2370</td>
</tr>
<tr>
<td>Subsidiary Level</td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>GEO 2370</td>
</tr>
<tr>
<td><strong>History</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>WOH 2022</td>
</tr>
<tr>
<td><strong>History of Americas</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>WOH 2012 &amp; WOH 2022</td>
</tr>
<tr>
<td><strong>History of Europe</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>AMH 2001 &amp; AMH 2020</td>
</tr>
<tr>
<td><strong>Info Tech in Global Society</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>EUH 2001 &amp; EUH 2002</td>
</tr>
<tr>
<td><strong>Mathematics w/Further Studies</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Level</td>
<td>4, 5, 6, 7</td>
<td>3</td>
<td>MAC 1104</td>
</tr>
</tbody>
</table>
CREDIT BY EXAMINATION

Regularly enrolled* undergraduate students at the University of Central Florida may obtain credit for specific university courses through department examinations. Those who feel they have acquired the knowledge and/or skills of a specific university course should consult their 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 (i.e., with the same rubric) in which students are currently enrolled or which they have already completed. 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.

*DANTES EXAMINATION CREDIT

The University will award credit to students presenting qualifying scores in DANTES examinations for the five subject areas identified below.

<table>
<thead>
<tr>
<th>Examination</th>
<th>Score</th>
<th>Semester Hours</th>
<th>Equivalent Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy</td>
<td>50</td>
<td>3</td>
<td>AST 2002</td>
</tr>
<tr>
<td>Beginning German I</td>
<td>50</td>
<td>4</td>
<td>GER 1120</td>
</tr>
<tr>
<td>Beginning German II</td>
<td>50</td>
<td>4</td>
<td>GER 1121</td>
</tr>
<tr>
<td>General Anthropology</td>
<td>50</td>
<td>3</td>
<td>ANT 2000</td>
</tr>
<tr>
<td>Introduction to Computers/Basic</td>
<td>50</td>
<td>3</td>
<td>CGS 1461</td>
</tr>
</tbody>
</table>
UNDERGRADUATE DEGREE REQUIREMENTS

**REQUIREMENTS FOR GRADUATION**

Students must fulfill both the requirements for a major and university graduation requirements to receive a degree from the University of Central Florida.

**TO EARN A BACHELOR'S DEGREE FROM UCF, STUDENTS MUST:**

- Fulfill the requirements for the chosen major
- Earn a minimum of 120 unduplicated semester credit hours with at least a "C" average (2.0 GPA) for all UCF course work attempted. Some majors require more than 120 hours.
- Earn at least 48 of these 120 semester credit hours in 3000-level courses or above
- Earn the last 30 semester 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 which require the minimum of 120 total hours, residency will be 30 hours. For programs which 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 requirements defined elsewhere in this section
- Fulfill the Gordon Rule requirements defined elsewhere in this section
- Fulfill the Foreign Language Proficiency requirements defined elsewhere in this section
- Fulfill the CLAST requirement defined elsewhere in this section
- Earn a minimum of nine semester hours during summer terms, if applicable

**COMPLETION OR GRADUATION RATE DISCLOSURES**

The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking under-graduate students who are enrolling for the first time at the institution, and have not previously enrolled at any other institution of higher education, either complete or graduate from their programs. The retention rate for fall 1996 students is 71.3%. The information is publicized and available for review in the UCF Library and other student publications.

**CHOICE OF CATALOG AND CONTINUOUS ENROLLMENT**

A student must graduate under the provisions of any UCF catalog in effect since the student began continuous enrollment at UCF. However, students transferring from Florida public community colleges or state universities may use the UCF catalog in effect at the time they 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 (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 must use a single catalog and not a combination of catalogs for graduation. In cases when required courses are no longer taught by the university, the appropriate department, college, or university office may designate a reasonable substitute. If students wish to change their catalog for graduation, they should first discuss with their advisors how such a change would affect university, college, and major requirements. If students decide to request a change, they should fill out a Catalog Change form in the Registrar's Office, Administration Building, AD 161.

**GENERAL EDUCATION PROGRAM**

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 which fulfill the General Education 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 wish to transfer to another Florida public university can have their transcripts stamped GENERAL EDUCATION REQUIREMENTS MET 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 classes that use the "NC" grade must earn a grade of "C" or better.
### GENERAL EDUCATION PROGRAM COURSES

(36 semester hours required)

**A. Communication Foundations**

1. **ENC 1101** English Composition I 1,2
   
2. **ENC 1102** English Composition II PR: ENC 1101 1,2
   
3. **SPC 1600** Fundamentals of Oral Communication
   
   or

   **SPC 1016** Oral Communication for the Engr & Tech Professions

**B. Cultural and Historical Foundations**

1. Take one of the following two-semester sequences:
   
   **EUH 2000** Western Civilization I 2
   
   **EUH 2001** Western Civilization II 2

   or

   **HUM 2211** Humanistic Tradition I 2
   
   **HUM 2230** Humanistic Tradition II 2

   or

   **AMH 2010** U.S. History: 1492-1877 2
   
   **AMH 2020** U.S. History: 1877-present 2

   or

   **WOH 2012** World Civilization I 2
   
   **WOH 2022** World Civilization II 2

2. Take one course from the following:
   
   **ARH 2050** The History of Art I
   
   **ARH 2051** The History of Art II
   
   **MUL 2010** Enjoyment of Music
   
   **THE 1020** Theatre Survey
   
   **THE 2071** Cinema Survey
   
   **REL 2300** World Religions
   
   **PHI 2010** Introduction to Philosophy
   
   **LIT 2110** World Literature I PR: ENC 1102 2
   
   **LIT 2120** World Literature II PR: ENC 1102 2

**C. Mathematical Foundations**

Take one course from each group. Some majors require a specific course or a higher level course in this area. Consult your advisor:

1. **MAC 1104** College Algebra 3
2. **MGF 1203** Finite Mathematics 3
3. **CGS 1060C** Introduction to Computer Science 3
4. **STA 2014** Principles of Statistics 3
5. **STA 1060** Basic Statistics using Microsoft Excel

**D. Social Foundations**

Take one course from each group.

1. **ECO 2013** Principles of Economics I
2. **ECO 2023** Principles of Economics II
3. **POS 2041** American National Government
4. **PSY 2013** General Psychology
5. **SYG 2000** General Sociology
6. **ANT 2003** General Anthropology

**E. Science Foundations**

Take one course from each group. Some majors require a specific course or a higher level course in this area. Consult your advisor:

1. **PSC 1121** Physical Science PR: MAC 1104 or MGF 1203 3
2. **PHY 2053C** College Physics PR: MAC 1104 and MAC 1114 4
3. **CHM 1020** Concepts in Chemistry PR: MAC 1104 or MGF 1203 3
4. **BSC 1020** Biological Principles
5. **BSC 1030** Biology and Environment
6. **BOT 1000** Plant Science
7. **GLY 1030** Geology & Its Applications
8. **GEO 1200** Physical Geography
9. **ANT 2511** The Human Species

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

1A grade of "C" or better is required in this course.

2A grade of "C" or better in this course satisfies three hours of the Gordon Rule requirement in English composition. In addition any upper-division course in composition or literature taught by the UCF English Department and selected upper-division courses taught by the UCF History Department also satisfy three hours of the English composition requirement, if the course is completed with a grade of "C" or better. A list appears in "The Gordon Rule" in this section.

3A grade of "C" or better satisfies three hours of the Gordon Rule requirement in mathematics. In addition, a grade of "C" or better in any higher level course in mathematics, statistics, or computer science also satisfies three hours of the mathematics requirement.
SUBSTITUTION OF COURSES — GENERAL EDUCATION PROGRAM AND OTHER REQUIREMENTS

The Student Academic Support System (S.A.S.S.) routinely coordinates 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), S.A.S.S. will request course descriptions and other information to provide a sufficient basis for evaluation. Courses are evaluated on the basis of equivalency with the content of the courses required by the University. The evaluation conducted is entered into a computerized degree audit system and is then available to the colleges and departments through the university's computer network. Appeals of decisions made by S.A.S.S. should be directed to Dr. David Dees, Assistant Dean, Enrollment and Academic Services, AD 210. Substitution requests for college or major requirements are processed within those administrative offices.

ALTERNATE COURSES - GENERAL EDUCATION PROGRAM

Courses which may be taken in substitution for the stated GEP requirements are given below:

<table>
<thead>
<tr>
<th>GEP REQUIREMENTS</th>
<th>ACCEPTABLE SUBSTITUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1104 (College Algebra)</td>
<td>MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313</td>
</tr>
<tr>
<td>ECO 2013 (Macro Economics)</td>
<td>Any higher level ECO course which has ECO 2013 as a prerequisite ECO 2023 (Micro Economics)</td>
</tr>
<tr>
<td>PHY 2053C (Physics)</td>
<td>PHY 2048, PHY 2049, PHY 2054C, PHY 2014C, PHY 5015</td>
</tr>
<tr>
<td>CHM 1020 (Chemistry)</td>
<td>CHM 2045, CHM 1032, CHS 1440</td>
</tr>
<tr>
<td>BSC 1020 or BSC 1030 (Biology)</td>
<td>BSC 2010C</td>
</tr>
<tr>
<td>GEO 1200 (Geography)</td>
<td>GEO 2370</td>
</tr>
<tr>
<td>CGS 1060C (Intro to Computer)</td>
<td>CGS 2100, CGS 3422, COP 2200, COT 3100</td>
</tr>
<tr>
<td>STA 2014 (Statistics)</td>
<td>STA 2023, STA 3032</td>
</tr>
</tbody>
</table>

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 which 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 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 are also exempt.

The requirement is satisfied by the successful completion of a diversity course selected from the following list. Additional courses may be subsequently approved 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 1600 Fundamentals of Oral Communication
- SYG 2000 General Sociology
- ANT 2003 General Anthropology
- POS 2041 American National Government
- PSY 2013 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
- ASH 3XXX Women in East Asia: China and Japan
- CCJ 4463 Cultural Diversity in Criminal Justice
- CCJ 4630 Comparative Justice Systems
- CCJ 4670 Women and Crime
- COM 4461 Intercultural Communication
- LIN 4XXX African-American Styles of Communication
EXIT EXAMS

FOREIGN LANGUAGE PROFICIENCY REQUIREMENT

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 which 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 are exempt from this requirement.

For specific guidelines concerning proper placement in foreign language classes, please see section: Dept. of Foreign Languages and Literatures, under the heading, Placement and Proficiency.

Some Departments and Colleges have additional requirements. See "special college and/or departmental requirements" within each departmental 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 (RS203).

4. The foreign language proficiency requirement does not apply to students seeking a second baccalaureate degree.

5. A student who is required to furnish a passing TOEFL (Test of English as a Foreign Language) score for admission to the University and does so is considered to have satisfied the requirements.

STATE UNIVERSITY PROGRAM FOREIGN LANGUAGE PROFICIENCY REQUIREMENT

Students who have not satisfied the Foreign Language Admission Requirement 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 University of Central Florida Foreign Language proficiency requirement. For detailed information on the Admission Requirement, see the Admissions chapter of this catalog.

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 (6 semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a grade of "C" or better. CLEP and other forms of credit by examination may not be used to satisfy the composition portion of the Gordon Rule Requirement.
UCF courses which are required by the General Education Program may also be used to satisfy the Gordon Rule. Gordon Rule requirements may be satisfied by the General Education Program as follows:

**Gordon Rule Requirement:**
1. 6 hours of math at the level of college algebra or higher
2. 12 hours of course work in which the student must complete 24,000 words of composition

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

**GEP Courses Which Satisfy:**
1. 6 hours of English Composition
2. 6-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 may also be used to meet the Gordon Rule composition requirement. Consult the OASIS for information.

**Courses Which Satisfy:**
- ADV 4101 Adv Copy & 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.

**Courses Which Satisfy:**
- 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 3445 Spanish Borderlands
- AMH 3460 History of Urban America
- AMH 3540 Military History
- 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 4312 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 & S.Am
- ANT 3163 Mesoam Arch
- ANT 3328 Maya Arch
- ANT 3930 Seminar in Arch Meth
- ARH 4350 Baroque Art
- ARH 4430 19th Century Art
- ARH 3456 Art After 1945
- ARH 3530 Asian Art
- ARH 4450 20th Century Art
- ARH 4655 Mesoamerican Art
- ARH 4311 Early Italian Renaissance Art
- ARH 4312 Late Italian Renaissance Art
- ASH 3300 Survey of East Asia
- ASH 4404 China in 19th and 20th Centuries
- ASH 4442 Modern Japan, 19th & 20th Centuries
- EUH 3121 Age of Transition
- EUH 3122 Medieval Society and Civilization
- EUH 3142 Renaissance and Reformation
- EUH 3235 Romanticism and Realism
- EUH 3242 The Emergence of Modern Soc. 1870-1930
- EUH 3281 Second World War & Rebirth of Europe
- EUH 3401 Ancient Greece
- EUH 3411 Ancient Rome
- EUH 3651 War and Society

OASIS for information.
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 UCF are required by the State of Florida 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 credit hours are eligible to take CLAST.

Transfer students with more than 60 credit hours who have not taken the CLAST or 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 an additional 36 upper-division credit 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 for an additional 36 semester hours of upper-division credit. If the CLAST requirement has not been satisfied and the additional 36 hours of upper-division credit have been earned, enrollment in future terms at UCF will be prohibited until the CLAST requirement has been met. An appeal to continue enrollment must be approved by the University Admissions and Standards Committee.

CLAST is offered statewide once per semester. Students must register in advance at the Student Academic Resource Center (SARC), PCI-102, or at the UCF Registrar’s Office, AD 161. Additionally, students may retake the English Language Skills, Reading, and/or Mathematics subtests on computer at the Counseling and Testing Center/Test Office, Student Resource Center, room 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 (SARC), PCI-102, phone (407) 823-5130. Academic advising offices within each college and the Unit of Academic Development and Retention can also be of assistance.

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 university. Courses taken at the University during the summer for which the student receives a "W" or "F" may be counted toward this requirement. Petitions for exemption are sent to Dr. David Dees in Enrollment and Academic Services on the form supplied by Enrollment and Academic Services (AD 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 College Level Academic Skills Test (CLAST)
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 semester must complete the Intent to Graduate form in their college during Early Registration for their last semester. Students who have not applied for graduation by the last day of classes in the semester preceding the graduation semester will not be listed in the graduation program. Graduating students are required to be enrolled at UCF during the term of graduation. Graduates may contact the Registrar's Office for commencement ceremony and guest ticket information.

Successful completion of the degree requirements stated in the catalog under which the student wishes to graduate shall constitute a recommendation of the respective college faculty that the degree be awarded, assuming the student is in good standing in the University. A student must complete all requirements for a baccalaureate or graduate degree no later than the date of the semester graduation ceremony. 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 (some 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 can now use credit correspondence courses, as appropriate, to apply toward the recertification of their 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, Phone: (352) 392-1711, Ext 200; E-mail: learn@nervm.nerdc.ufl.edu. Home page: http://www.doce.ufl.edu/indstudy.

TEACHER CERTIFICATION REQUIREMENTS

Initial certification requirements in Florida have included basic components for (Profession Certificate) full certification. The components are:

General Preparation
Courses included in this category are normally classified as general education (i.e., General Education Program). A graduate with a Bachelor's degree from an accredited institution shall be considered to have met the General Preparation requirements.

Teaching Specialization
Courses included in this category are normally classified as the major area in a student's college program. Other subjects can be shown if the specific requirements in 6A-4.07 through 6A-4.35 Florida Requirements for Teacher Certification have been met.

Professional Preparation
Students can complete a program of Professional Preparation by one of two means at UCF. These means are:

a. The State-Approved Program of Teacher Education (i.e., a major in the College of Education) and satisfaction of state requirements for SAT or ACT and CLAST scores

b. The Basic Certification Program (i.e., a major in some other college) and admissibility to the professional phase of the program

4. Comprehensive Examination
Competency must be demonstrated on a written examination in the areas of Mathematics, Reading, Writing, Professional Skills, and subject area competency. Examinations will be administered at least three times per year throughout the State of Florida.

Beginning July 1, 1997, a Professional Florida Teacher's Certificate may be issued to persons meeting all requirements for the Temporary Certificate and satisfactorily completing the Professional Education Competency Verification.
ENROLLMENT AND ACADEMIC SERVICES

Interim Vice President for Student Affairs, Enrollment and Academic Services: Thomas Huddleston, Jr., AD 210, (407) 823-2226
Associate Dean: Paul R. McQuilkin, AD 210, (407) 823-2691
Assistant Dean: David R. Dees, AD 210, (407) 823-2691
Assistant Dean: Maribeth Ehass, AD 210, (407) 823-2169

The primary purpose of Enrollment and Academic Services is the identification, enrollment, retention and graduation of students from the University of Central Florida. The division enhances student enrollment and ensures that appropriate support services are available to strengthen the academic experiences of the students attracted to the university. Among the services provided are: undergraduate admissions, advisement and academic exploration, college and community outreach, community college articulation, financial assistance, multicultural academic support, academic records, registration, retention, student leadership programs, commencement, planning and research. These responsibilities are integral to the mission of the university, address the needs of students and faculty and respond to other targeted constituencies including business and industry, parents, alumni and other educational institutions.

Enrollment and Academic Services provides support through the unit of Academic Development and Retention which includes the Academic Exploration Program, Academic Services for Student-Athletes, First Year Advising and Information Services, Multicultural Student Services, Student Academic Resource Center, Student Outreach, and the National Consortium for Academics and Sports. In addition, Enrollment and Academic Services includes the Offices of Articulation and Community College Relations, LEAD Scholars, Registrar, Student Financial Assistance, Undergraduate Admissions, and Undergraduate Procedures.

ACADEMIC DEVELOPMENT AND RETENTION
Assistant Dean: Maribeth Ehass, AD 210, (407) 823-2169

The unit of Academic Development and Retention focuses on academic advising, support, and retention for targeted student populations. Through a program of assessment, collaboration, and coordination, the unit provides leadership for academic orientation programs, academic advising services, and academic success programming.

ACADEMIC EXPLORATION PROGRAM
Director: Russell Tiberii, PH 202, (407) 823-5322

The Academic Exploration Program (AEP) is a student-centered source of academic support and information for students who choose not to make a premature choice of major, but prefer to explore the many options available to them under the guidance of academic advisors and with the assistance of other professional resources throughout UCF. The central mission of the Academic Exploration Program is to provide a focal point of academic support and assistance for students who are uncertain about their program of study or have been displaced from a restricted or limited access major.

Opportunities are provided for students to participate in a series of workshops and seminars that provide them with an opportunity to explore interests, assess abilities and provide an organized approach to making thoughtful, well informed and meaningful decisions about their education and careers. Students in AEP progress through a variety of activities and tasks through which they learn to use the skills of academic and occupational data gathering and evaluate this information in the context of their own personal strengths, limitations and interests. The objective of AEP is to assist students in defining their goals and selecting an academic major.

In addition to the workshops, individualized academic advising is provided to help students find the correct balance of support, challenge, structure and freedom to assist in the development of their academic programs. Central to all academic advising and support programs is a developmental approach to assisting students. Support is provided for self-assessment, exploration of academic disciplines, and decision making to achieve the fulfillment of academic and life goals. Course selection assistance is provided during each registration period, and long range academic planning assistance is provided throughout the academic year.

ACADEMIC SERVICES FOR STUDENT-ATHLETES
Director: Sandra Reeves, Building 521, (407) 823-5895

The university makes a strong academic commitment to its student-athletes. The Office of Academic Services for Student-Athletes collaborates with the Athletic Department to ensure that student-athletes...
balance the academic demands of the full-time student with the competition of Division I intercollegiate athletics through the NCAA/CHAMPS Life Skills Program. The focus of the program is on five commitments: athletic excellence, academic excellence, personal development, service, and career development.

Through cooperation with college departments, professional advisors advise student-athletes according to requirements for their program of study. Academic support services include organized study sessions, tutorial services, time management and study skills instruction. The office is responsible for notifying and working with faculty to arrange for make-up work for student-athletes when they travel for competition. A career exploration component assists the student-athlete with decisions related to choosing a major, a career, graduate school or other career interests.

Through collaboration with the Athletic Department and the NCAA faculty representative, professional advisors ensure compliance with NCAA requirements from the admissions process through graduation. The office serves as a resource for student-athletes. The advisors refer student-athletes regularly to faculty members or other support services on campus for assistance.

FIRST YEAR ADVISING AND INFORMATION SERVICES
Director: Robert E. Snow, Trailer #541, (407) 823-3789

UCF recognizes that starting in a new learning environment can present many challenging life transitions for incoming students. First Year Advising and Information Services has been established to proactively prepare and support first year students, specifically first-time-in-college students. The overriding mission of the office is to assist first year students by providing general education advising services and other programs that will lead to students’ overall satisfaction, success and persistence at UCF.

To fulfill this mission, the office focuses its efforts on providing a caring environment, serving as a centralized source of academic information, conducting personalized advising and academic support, establishing early and regular communication, providing outreach activities for freshmen, and tracking the academic progress and success of our target student population. An additional priority is to provide activities and interaction with first year students that promote early affiliation and involvement with UCF. First Year Advising also coordinates the Class Advantage program, a special early advising initiative for high academic achieving, incoming freshman.

First Year Advising and Information Services works collaboratively with college advisors in providing accurate academic program information and in creating appropriate academic plans for our students. The office provides general education advising, general information and other assistance beginning with the new student orientation process and continuing throughout the initial stages of students’ UCF collegiate experience.

MULTICULTURAL STUDENT SERVICES
Director: A.J. Range, AD 145, (407) 823-2716

The Office of Multicultural Student Services (MSS) 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. MSS offers personalized advising and support; monitors academic progress; sponsors a six week summer program, Seizing Opportunities for Academic Retention (SOAR); and designs and coordinates cultural and social activities to assist students of color in realizing their academic, career and personal goals. MSS serves as the focal point of operations in addressing the specific needs, issues and concerns that confront multicultural students at UCF.

STUDENT OUTREACH
Director: TBA, TR 547, Room 101, (407) 823-5580

The primary mission of Student Outreach 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 to 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. Leadership training and promotion of civic responsibility are integrated into all outreach programs. Students are invited to the UCF campus for summer programs that provide an early introduction to college life and equips students with unique approaches to attain college preparedness. Participants also obtain a head start on becoming productive citizens.

**NATIONAL CONSORTIUM FOR ACADEMICS AND SPORTS**

*Director: Suzi Katz, ADM 210, (407) 823-5243*

The University of Central Florida has shown a commitment to the education of its student-athletes and to the well being of the community by continuing its relationship with the National Consortium for Academics and Sports (NCAS) as host for the Southern Regional Office.

The mission of the National Consortium for Academics and Sports is to help create a better society by focusing on educational attainment and using the power and appeal of sport to positively affect social change.

The NCAS evolved in response to the need to help "keep the student in the student-athlete." Since its inception, NCAS member institutions have proven to be effective advocates for balancing academics and athletics. By joining the NCAS, a college or university agrees to bring back, tuition-free, their own former student-athletes. In exchange for the tuition assistance, these student-athletes agree to participate in the schools' outreach and community service program.

In addition to outreach, the NCAS offers its members education programs to train staff members and student-athletes on issues relating to men's violence against women. Student-athletes learn about this issue and become empowered to take a leadership role on their campuses to end men's violence against women and all forms of sexual harassment. Diversity training is also offered to member institutions both for student-athletes as well as administrators.

Programs of the National Consortium for Academics and Sports include; National STUDENT-Athlete Day, Outreach and Community Service, Mentors in Violence Prevention (MVP) Program, TEAMWORK Leadership Initiative (TLI), Athletes in Service to America, TEAMWORK-South Africa, Degree Completion Program, NBA/NBPA Career Transition Program, and NFL/NFLPA Pro Education Program.

**STUDENT ACADEMIC RESOURCE CENTER**

*Director: Patricia E. Pates, PC1-102, (407) 823-5130*

The Student Academic Resource Center (SARC) provides high-quality academic support programs, including supplemental instruction, tutoring, academic advising, and various other programs and services to UCF students to support the goal of providing a quality education at the University of Central Florida. SARC serves as a means for retention of students and is an important element in enabling UCF students to achieve their academic goals. SARC provides students with free individualized and small-group tutoring in biology, chemistry, economics, Spanish, physics, reading, statistics, and many other courses.

Every semester, SARC offers a series of CLAST Review Workshops for each of the four CLAST subtests. The staff can also prescribe self-paced programs specifically designed for CLAST preparation. Classes are offered for those preparing for the GRE. Computer assistance is also available for GRE, GMAT, LSAT, and MCAT preparation.

SARC's professional academic advisors work with a select group of UCF freshmen as well as with others who need academic advice, study skills help, and assistance in selecting an appropriate schedule of courses.

SARC also provides assistance with time management, note taking, test taking, memory, creative and critical thinking, and test anxiety for all students wishing to enhance their educational experience.
The Office of Articulation and Community College Relations has primary responsibility for inter-institutional relations with Florida's public community colleges. This office maintains and enhances working relations with these institutions by providing the following services and resources:

- accurate and current information about university programs and policies including entrance and exit requirements
- articulation workshops and conferences involving instructional, advising and administrative personnel from the university, community colleges and other selected institutions
- university liaison with the Florida community college system, i.e., the Council of Instructional Affairs, Council of Student Affairs, Council of Presidents, Articulation Coordinating Committee and Florida Association of Community Colleges
- written articulation agreements between the university and the community colleges and among colleges within the university
- coordination and processing of transfer scholarships and awards
- systematic monitoring of the UCF's compliance with the state-wide articulation agreement
- interpretation of statutes and rules for the university community and the state university system and interpretation of university rules for the community colleges

The director of this office serves as ombudsman for community college students experiencing problems, while establishing systems to prevent transfer problems from occurring. Of primary concern is the improvement of the academic readiness of students to pursue their major fields of study and complete their baccalaureate degrees in a timely manner.

**LEAD SCHOLARS PROGRAM**

**Director:** Pamela Anthrop, AD 351, (407) 823-2223, http://pegasus.cc.ucf.edu/~lsp

The LEAD (Leadership Enrichment and Academic Development) Scholars Program is a comprehensive student development program for talented first year college students with experience and interest in leadership, scholarship and service.

The LEAD Scholars Program (LSP) fosters further enrichment in these areas while enhancing the academic growth and individual development of future leaders during their first two years of higher education. This program focuses on integrating LEAD Scholars with faculty in the five colleges of Arts and Sciences, Business Administration, Education, Engineering and Health and Public Affairs. 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. LEAD Scholars will be required to take a seminar in foundations of leadership as a primary means of facilitating the focus for study, advisement and educational activities as it relates to leadership, scholarship and service within the college. This one credit hour (satisfactory/unsatisfactory) will be required each fall and spring term during the two year program.

LEAD Scholars join a unique partnership with faculty and staff as a way to make immediate connection with academic life. Leadership development will be fostered in the university, in the community and through skill enhancement. LEAD Scholars will have the opportunity to experience service to campus and the community. Scholarship will be enhanced through involvement with the colleges, academic and administrative departments and through academic exploration.

LEAD Scholars are provided special class scheduling privileges, citations and awards, official notation on student transcript, graduation recognition, selected scholarship assistance, selected work assignments in academic and administrative departments and on-campus housing opportunities.

Through a competitive application process based on academic record, extracurricular and community activities, letters of recommendation and expressed written interest in leadership, scholarship and service, LEAD Scholars are selected for this two year program that serves as a bridge for participation in leadership opportunities as upper division students.

**REGISTRAR'S OFFICE**

**University Registrar:** John F. Bush, PhD, AD 161, (407) 823-5454, bush@mail.ucf.edu

The Registrar's Office primary purpose is the registration of all students, safekeeping and control of all student records, maintaining the student database, developing the schedule of classes and the assignment of classrooms and coordinating graduation and commencement activities. The office contributes to the enhancement of student enrollment and retention and ensures that the appropriate
administrative support services are available to contribute to the academic experiences of students who are attending or have attended the university.

The Registrar's Office is comprised of five units: Records, Registration, Student Database Control, Room Scheduling and Graduation and Commencement. The office operates as a cohesive unit in providing registration; record services for students, faculty, and staff, coordination of the commencement ceremony; and room scheduling for academic purposes. All units operate as student service units whose primary function is providing academic services to all students of the university. All units of the office work closely with the other units of Enrollment and Academic Services as well as other university departments.

Among the services supported by the Registrar's Office are telephone registration, regular registration, graduation processing, commencement, development and printing of the schedule of classes, undergraduate catalog and commencement program, student database maintenance, transcript services, enrollment certification services, transfer summary updates for currently enrolled students, readmission of students, residency reclassifications and data support services to other units of the division of Enrollment and Academic Services and university departments.

STUDENT FINANCIAL ASSISTANCE
Director: Mary H. McKinney, AD 150 (407) 823-2827, For Appointment (407) 823-5285

The primary role of this office 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 also serves as the Undergraduate Student Personnel Office. Students are encouraged to apply for financial assistance by completing the Free Application for Federal Student Aid (FAFSA). 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/~fmaid/

UNDERGRADUATE ADMISSIONS
Director: Susan McKinnon, AD 161G, (407) 823-3000

The Undergraduate Admissions Office coordinates the admission and enrollment process of all undergraduate first-time-in-college, transfer, non-degree and non-Florida state university transient students to the Orlando, Daytona and Brevard campuses. The office seeks to identify, attract and enroll the desired number of talented, diverse and academically qualified students who can contribute to and achieve academic growth from the multitude of programs offered through the university and community we serve. Through managed communication, a data management system and scholarships, the office is able to attract students who are motivated, challenged and have the desire to achieve academic prominence.

Office functions include administering programs for prospective students, such as campus tours, open houses, area receptions, high school and community college visits. Students, parents, high school and community college counselors are consulted on a continual basis regarding all aspects of admissions and general information on the academic, social and living components of the university. The office is committed to providing accurate and timely information to all constituents.

UNDERGRADUATE PROCEDURES
Assistant Dean: David R. Dees, AD 210, (407) 823 2691

This office is responsible for administering state and university academic policies which pertain 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.
ACADEMIC ADVISING

The purpose of academic advising at the University of Central Florida is to aid students in achieving educational goals. Although academic advisors assist students with academic planning, it is students' responsibility to complete the following:

NEW STUDENTS shall:
1. Return completed health form and proof of immunization (shot) records to Student Health Services prior to attendance at orientation
2. Return orientation reservation
3. Attend mandatory orientation program at the assigned time
4. Meet with academic advisors
5. Complete the course registration process. This is to be done in person
6. Secure a fee invoice after each registration transaction
7. Arrange for payment or deferment by the last day of add/drop (future terms will require early payment to secure classes)
8. Complete any changes in course schedule via telephone or in person by the last day of add/drop
9. If it becomes necessary to withdraw from a class after the last day of add/drop, complete the appropriate paperwork available at the Registrar's Office by the published deadline

CONTINUING STUDENTS shall:
1. Pick up a schedule of classes and your SASS degree audit with your registration appointment time as soon as they become available (approximately two weeks prior to registration)
2. Register on your scheduled appointment time by telephone or in person. Complete all changes to your schedule by the end of the published add/drop period
3. Pick up a copy of your fee invoice after each registration transaction. Make payment by the date printed on your fee invoice
4. Be aware of all important dates listed in the catalog and Schedule of Classes
5. If it becomes necessary to withdraw from a class after the last day of add/drop, complete the appropriate paperwork available at the Registrar's Office by the published deadline
6. File your intent to graduate in your college when registering for the term in which you intend to graduate

There are a variety of academic advising systems available at the University of Central Florida in each of the five colleges and the Unit of Academic Development and Retention. These are described in the following sections:

COLLEGE OF ARTS AND SCIENCES

Although students may have several advisors for varying 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) as soon as possible in the first semester at the University of Central Florida.

NEW STUDENTS will:
1. Meet in a group setting with representatives from the College of Arts and Sciences representatives 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 schedule of classes
3. Refer to OASIS any questions pertaining to general education requirements, AP credit, university policies and procedures, etc.
4. Register for classes at a central location
5. Check their fee invoices to ensure accuracy of 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. Registration forms, classes schedules and degree audits will be distributed in the department of the major each semester
3. Continue to register for classes at a central location or via phone
4. Refer to OASIS any questions pertaining to GEP, CLEP, AP credit, as well as policies and procedures
5. Check their fee invoices to ensure accuracy of class schedule
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 covering their final 60 hours of undergraduate enrollment.

1. Students should seek advisement in identifying a program of study that matches their interests and abilities and is consistent with their educational goals and career aspirations
2. Assistance will be provided in the selection and sequencing of specific courses within the student’s chosen program
3. The advisement system provides a mechanism for ensuring that the students meet academic requirements for graduation in a timely fashion
4. It is the intent of the college to ensure that timely and accurate information and advice are available to every student and that students are made aware of advising services. All students are strongly encouraged to establish advising relationships within the college. It is, however, the student’s responsibility to pursue the available advising options. These options include assistance from:
   a. the Office of Student Support
   b. faculty advisors
   c. trained peer advisors

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 assigned a faculty advisor in the area of your major upon completion of College of Education admission requirements. The faculty advisor’s name and telephone number appear on the audit
3. Education pending students are advised in the College of Education Office of Student Services

CONTINUING STUDENTS will:
1. Set up an appointment with your faculty advisor or the Office of Student Services, if a pending major, to review your academic progress and to develop an academic plan. Review this plan each term with your advisor prior to registration
2. Pick up a schedule of classes and your SASS degree audit with your registration appointment time from the College of Education Office of Student Services as soon as they become available (approximately two weeks prior to registration)
3. Register on your scheduled appointment time by telephone, POLARIS, or in person in the College of Education Office of Student Services. Complete all changes to your schedule by the end of the published add/drop period
4. File your intent to graduate in the College of Education during the registration period for the term in which you intend to graduate

NEW STUDENTS will:
1. Meet with the College of Engineering advising representatives to:
   a. review the Student Manual for Engineering Students
   b. discuss degree program requirements
   c. become aware of key academic policies
2. Meet with a faculty advisor in the department of your major to:
   a. understand the career options of your major
   b. plan an appropriate first term schedule
3. Engineering pending majors are advised in the Engineering Academic Affairs Office. They are encouraged to seek advisement on determining a major as soon as possible. Failure to declare a major by the end of your first year may result in a delay of your graduation.

CONTINUING STUDENTS will:
1. See the department of your major during the first week of the term to be assigned a faculty advisor
2. Set up an appointment with your faculty advisor to review your academic progress and to develop an academic plan. Review this plan each term with your advisor prior to registration
3. Use the flow diagram in the student manual of your major to track your progress through your degree requirements
4. Pick up a schedule of classes and your SASS degree audit with your registration appointment time from the department of your major as soon as they become available (approximately two weeks prior to registration)
5. Register on your scheduled appointment time by telephone or in person in the Engineering Academic Affairs Office. Complete all changes to your schedule by the end of the published add/drop period
6. File your intent to graduate in the Engineering Academic Affairs Office during the registration period for the term in which you intend to graduate.

COLLEGE OF HEALTH AND PUBLIC AFFAIRS

NEW STUDENTS will meet college advising representatives in group settings during orientation to:
1. Discuss degree program requirements
2. Understand career options of the major program of study
3. Plan an appropriate first term schedule of courses
4. If the student is accepted in a major, they should check in the department of their major for their assigned faculty advisor during the first few weeks of the semester.

CONTINUING STUDENTS:
1. If accepted in a major, they should see their faculty advisor 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. Pending majors in limited-access programs should seek an advisor during the first few weeks of each semester in the COHPA Office of Student Support to check progress toward eligibility for application to the major.
3. Should pick up a schedule of classes and the SASS degree audit with the new registration appointment time from the Office of Student Support, HPB 201 as soon as they become available (approximately one week before registration).
4. Students should file intent to graduate in the COHPA Office of Student Support during the registration period for the term in which graduation will occur.

BREVARD CAMPUS

NEW TRANSFER STUDENTS enrolled in majors offered at the Brevard Campus: Nursing, Public Administration, Criminal Justice, General Business Administration, Legal Studies, Communicative Disorders, Engineering Technology, Elementary Education, Exceptional Education, Psychology and Liberal Studies, will meet with faculty advisors in a group setting during orientation to:
1. Discuss degree program requirements
2. Understand career options of the major program of study
3. Plan an appropriate first term schedule of courses

CONTINUING STUDENTS may meet with their advisors on an on-going basis.

DAYTONA BEACH CAMPUS

NEW TRANSFER STUDENTS are most welcome to meet with the counseling/advising staff prior to applying to UCF at Daytona Beach to discuss programs and requirements. And of course students are welcome to meet with counselors at any time while enrolled.

Students may enroll in the following majors offered at the Daytona Beach Campus: Criminal Justice, Elementary Education, Exceptional Education, General Business Administration, Legal Studies, Liberal Studies, Nursing (RN to BSN), Psychology, and Social Sciences. Students also have the option of completing most of the course work in the following majors: Accounting, Economics, Engineering Technology, Finance, Management, and Marketing. Students will meet with faculty 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 term schedule of courses

Any student who has not been awarded their AA degree nor completed UCF general education requirements should make an appointment as soon as possible with the advising office to clarify university policies that will affect the student's status and graduation.

CONTINUING STUDENTS are most welcome to meet with their advisors on an on-going basis.

FRESHMEN (FIRST TIME IN COLLEGE--FTIC)

The academic advising program in the Unit of Academic Development and Retention in the Division of Enrollment and Academic Services primarily focuses attention on newly admitted freshmen or First Time in College (FTIC's). The Unit of Academic Development and Retention focuses on academic advising, support, and retention for targeted student populations. Through a program of assessment, collaboration, and coordination, the unit provides leadership for academic orientation programs, academic advising services, and academic success programming.

NEW FTIC STUDENTS can expect to:
1. Meet individually with a professional academic advisor from Academic Development and Retention prior to or during orientation to:
   a. understand expectations for success at UCF
   b. assess high school grades, entrance and placement test scores
   c. become aware of key academic policies

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d. receive general education program advising

e. plan and register for an appropriate schedule of classes

2. Receive notification by the first week of the semester of your assigned professional academic advisor in the following designated order:

a. **Academic Services for Student-Athletes**—if you are a student-athlete

b. **Student Academic Resource Center**—if you are participating in the College Achievement Program (CAP) or Pegasus Program

c. **Multicultural Student Services**—if you are a student of color (African American, Hispanic, Asian, Native American, or other)

d. **Academic Exploration Program**—if you are uncertain about your program of study

e. **First Year Advising and Information Services**—if you are not covered by any of the previous categories

3. Receive general education advising, academic support, registration assistance and ongoing information about university policies and procedures from your assigned advisor

4. Receive updates on academic support, student services, and college major revisions through the "First Year Times" newsletter (published three times per year).

5. Participate in programs and advising activities that will promote a smooth transition from high school to the university experience

6. Link to academic advising within the college of your major
FLORIDA COMMUNITY COLLEGE TRANSFER GUIDE

Students with an AA degree from a Florida public community college are a protected population of students under the Florida Articulation Agreement law. Because they have received the Florida AA degree, students are guaranteed certain transfer rights and privileges.

The following guide is intended to help students successfully perform transfer responsibilities which will not only ensure a smooth and efficient transfer, but also maintain the provisions provided under the articulation agreement.

WHY SHOULD I VISIT UCF?

One of the best ways to find out more about UCF is to visit the campus. Only after spending time looking around and talking with both faculty and students will you know if you feel comfortable here and if UCF is the place you want to be. To get the most out of your visit, remember to:

- Visit the campus during the week when you can see the university in full swing. Weekends and holidays are not good times to visit.
- Decide on your visit date far enough in advance to allow you to make the necessary appointments. You will want to talk with advisors and faculty members in your college and major department.
- Plan to take a campus tour. Tours last one hour and leave from the second floor of the Administration Building, Monday through Friday at 11 a.m. and 2 p.m. You will walk to all five colleges and visit services and academic support locations. After the tour, you are free to visit individual offices; have lunch on campus; participate in any campus events; or merely stroll through the many campus areas.

There are also open houses occurring several times during the year. Check with your community college advisor or call the Undergraduate Admissions Office, (407)823-3000, for additional information.

WHEN SHOULD I APPLY?

Submit your application early.

UCF accepts your application up to one year prior to your anticipated term of entrance. However, we recommend you submit your application at least six months in advance. Do not wait until the AA degree is awarded to apply. Admission decisions are often made prior to the AA being earned. Students can be accepted "contingent upon completion of the AA degree." Some limited access programs may have a separate application deadline. Check with your specific department for exact dates.

By applying early and being accepted, you are invited to an early orientation. This means you register along with native UCF rising juniors. If you procrastinate, you may find yourself in orientations held late in the registration period when fewer available classes remain and at the less popular times.

Tuition and fee payments are not due at the time of registration. Payments are due within three (3) days after classes begin.

Check with your community college counselor or advisor to see if you meet the admission requirements for UCF and the college of your major within the university. Majors identified as "limited access" have additional requirements (e.g., a minimum GPA above 3.0, test scores such as ACT/SAT, etc.).

Most majors have required prerequisite courses. Check with your counselor/advisor to see if you have completed the necessary prerequisite courses for your chosen major.

Keep a transfer diary. For each contact with UCF, record the name of the person with whom you spoke, the date, and type of request. Keep a copy of all letters you send and receive. Any requirements or suggested courses should be obtained in writing from the person making the recommendations whether from the community college or UCF.

Have original transcripts from all institutions you have attended sent directly to the Undergraduate Admissions Office. If you are currently enrolled, be sure to send a transcript now and a final transcript when your classes are completed. Please send an official high school transcript to document completion of the foreign language requirement.

After students are enrolled they may use the Personal On-Line Access to Restricted Information System (POLARIS). POLARIS is at http://polaris.ucf.edu on the internet. POLARIS allows you to:

- Change your PIN number
- View your degree audit
- Access your financial aid data
- Register for classes
- View your academic record
WHAT IS ORIENTATION?

An orientation program is mandatory and helps you schedule and register for classes. Because you are not cleared to register until you attend an orientation session, plan to attend the earliest orientation session. Attending an early orientation provides you with more course selections and registration choices. We offer orientation sessions specifically designed for transfer students. Bring copies of all transcripts you may have to this session, as transcripts sent in for admissions purposes are not available for advising during orientation.

HOW WILL MY CREDITS TRANSFER?

All college level credits earned for which we have official transcripts are compiled into a Transfer Summary Report (TSR) soon after you are admitted. Some credits listed on the TSR may not be applicable toward graduation course requirements, i.e., some departments do not accept a transfer grade of "D." You should review this carefully to ensure that all credits are included. The TSR is the basis for constructing your Student Academic Support System (SASS) Audit. This audit applies your earned credits to your intended degree program, providing you with an assessment of which degree requirements have been met and those remaining to be satisfied. You and your advisor use the audit to schedule courses that meet your remaining requirements.

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 we do not receive them, a hold is placed on your record, which makes it difficult for you to receive financial aid or register for a future term.

WHAT IF I HAVE NOT TAKEN THE CLAST?

Students can be admitted without completing the CLAST. However, be aware that without the CLAST completed, students are not awarded the AA degree; therefore, privileges provided by the AA degree are not granted, i.e., grade forgiveness, Gordon Rule, and the completion of general education requirements. Students lacking one or more sections of the CLAST should request from the community college records office the following statement placed on their transcript: "General Education Requirements Met." This statement will protect your general education requirements (including Gordon Rule courses). Without this statement you must satisfy UCF’s general education requirement and Gordon Rule courses. However, no grade forgiveness is given without the AA degree awarded. If your grade point average falls below a 2.0 (without grade forgiveness), you will not be admitted. Failure to complete the CLAST could also affect student financial aid decisions. Check with the Financial Assistance Office for more details. CLAST must be taken during the first term of enrollment at UCF.

We will accept all CLAST alternatives awarded by the community college. Also, you are eligible for all CLAST alternatives that you were eligible for at the community college.

Students entering the College of Education may not use waivers or alternatives to satisfy CLAST requirements. Education majors who have used alternatives or waivers should speak with an advisor.
WHAT ABOUT FOREIGN LANGUAGE REQUIREMENTS?

To be admitted to the university you should complete two credits/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.

To graduate with a BA degree students must demonstrate foreign language proficiency in the same language, either through college level course work or testing, equivalent to one year of college instruction. Some majors require additional proficiency. Consult the UCF 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, will also have satisfied the graduation requirement.

HOW CAN MY COMMUNITY COLLEGE COUNSELOR/ADVISOR HELP ME?

It is important that you are kept informed of all requirements to transfer to UCF. Your community college counselor/advisor is provided with a transfer counseling manual that lists all requirements to enter each program at UCF. This manual can help you to determine which classes you need to complete before transferring. Additionally, information for limited access majors that require special application deadlines, GPA requirements, testing, portfolios, letters of recognition, etc. will be listed.

WHY SHOULD I COMPLETE MY AA DEGREE BEFORE TRANSFERRING?

Receiving your AA degree from a Florida public community college ensures you special benefits. The following are some of the advantages of receiving your AA degree:

- Acceptance of at least 60 credit hours toward the baccalaureate degree; no additional general education core requirements.
- Acceptance of all courses taken at your community college, if the same course with the same course number is offered at UCF.
- All accelerated programs (CLEP, AP, IB, PEP, early admission, and dual enrollment courses) within the AA degree from the community college will transfer into UCF.
- Advance knowledge of selection criteria for limited access programs; equal opportunity with UCF native students to enter limited access programs.
- All grade forgiveness awarded under the AA degree will be honored.
- As an AA degree graduate, you are guaranteed these rights under the statewide Articulation Agreement.

Students who do not complete the Florida public community college AA degree must complete UCF's general education requirements, which may be considerably different than your community college's. In addition, no grade forgiveness will be honored. All attempted credits will be averaged into your GPA. If you have less than 60 college credits, you must also submit high school transcripts and SAT or ACT scores to determine your eligibility for admission.

WHAT ARE LIMITED ACCESS PROGRAMS?

Certain academic programs have been designated "limited access" due to the large number of applicants and limited facilities and faculty. Admission to the university does not guarantee admission to a limited access program.

WHAT ARE RESTRICTED ACCESS PROGRAMS?

Restricted access means that the major has additional requirements, e.g. early application date, a separate application or specific GPA requirements. There is no "limit" to the number of students who can be enrolled. Students solving the specific requirement(s) will normally be admitted.

WITH WHICH ACADEMIC POLICIES SHOULD I IMMEDIATELY BECOME FAMILIAR?

The best and most complete source for academic policy information is the UCF catalog. Students should refer to their catalog often. It is the students' responsibility to know the policies, rules, and regulations of the university.

Students transferring to UCF should pay particular attention to the following policies because they may affect initial registration:

1. Add/drop policy. Students are not dropped from a class for non-attendance; therefore, you will be financially obligated to pay for the class. PAYMENTS WILL BE AUTOMATICALLY DEDUCTED for financial aid recipients who have payments deferred and do not drop unwanted courses. Some students are not aware of the automatic deduction until the next semester when they are depending on their financial aid to pay fees. Add/drop occurs during the first week of classes and may be done by phone or at designated walk-by locations. (Please refer to the catalog for the entire add/drop policy).

2. Withdrawal policy. The withdrawal date is mid-semester. Please refer to the UCF catalog for exact dates each semester. You will not be automatically withdrawn from a class by your professor for non-attendance. All withdrawals take place in the Registrar's Office located on the first floor of the Administration Building. You cannot withdraw by phone. Approved late withdrawals are recorded as "WP" or "WF" on your transcript, depending on whether the professor states that you are passing or failing at the time of the petitioned withdrawal. Approved medical withdrawals are
recorded as "WM." A "WF" is calculated into the grade point average as an "F." A "WP" or "WM" is not calculated into the GPA.

3. Forgiveness policy. Grade forgiveness is limited to two courses. If you have repeated two or more courses at a Florida public community college or Florida public university and have included those courses in the AA degree, no further grade forgiveness is allowed. NO GRADE FORGIVENESS IS HONORED FROM ANOTHER INSTITUTION UNLESS IT IS PART OF AN AA DEGREE FROM A FLORIDA PUBLIC COMMUNITY COLLEGE OR FLORIDA PUBLIC UNIVERSITY.

The grade forgiveness request form must be returned to the Registrar's Office by the last day of add/drop for the term in which you repeat the course. (Please refer to the catalog for the entire forgiveness policy and appropriate deadlines).

4. Third attempt policy. All students enrolled in undergraduate courses in the fall 1997 term are subject to surcharges when they enroll in a course for three or more times. Completed courses, withdrawals, and courses with incomplete grades are counted as attempts, including courses repeated in order to raise a GPA or achieve a specific grade. When you enroll in a course for three or more times, you will be assessed a surcharge approximately equal to out-of-state tuition.

WHEN DO I PAY MY BILL?

For students beginning their initial semester, tuition and fee payments are due within three (3) days after classes begin. A late payment fee of $50 will be assessed on all accounts not paid or deferred by the payment deadlines. Please note that you will not be sent a bill. It is up to you to pick up a fee invoice/schedule at your college advising office or the Registrar's Office. Payments may be made at the Cashier's Office (AD 108) or mailed to:

University of Central Florida
Cashier's Office
PO Box 620000
Orlando, Fl 32891-8449

Please do not mail or place cash in the night depository. Please include your social security number on all checks and money orders. Credit cards are not accepted.

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 and other waivers, and direct pay scholarships.

WHAT ARE THE SCHOLARSHIPS DESIGNATED FOR FLORIDA COMMUNITY COLLEGE TRANSFERS?

The Office of Community College Relations offers the following scholarships designated specifically for students transferring from Florida public community colleges:

- Brain Bowl Scholarship
- Cultural Diversity Scholarship
- Dean's Merit Scholarship
- Honors Scholarship
- Minority Community College Transfer Scholarship
- Phi Theta Kappa Scholarship
- Ralph C. Boston Outstanding Student Scholarship

Generally, students eligible for these scholarships have a minimum 3.0 GPA, an AA degree from a Florida public community college, transfer directly to UCF, and enroll as a full-time student.

For additional scholarship opportunities check with the college and department of your major. Other resources include the Student Financial Assistance Office and the community college. Also, the schools' libraries have books with national, state, and local scholarship listings and their criteria.

CAN TRANSFER STUDENTS PARTICIPATE IN THE HONORS PROGRAM?

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. Successful completion of Honors in the Major will be noted on your transcripts. Call (407)823-2076 for more information.

WHAT ABOUT PARKING?

To park on campus you must register your vehicle with UCF Parking Services and purchase a parking decal no later than the first week of classes. You will need to present a valid UCF ID and vehicle registration. Decals can be purchased for one, two, or three semesters and allow students to park in any student designated lot. Cars parked without valid decals or parked in a faculty/staff lot will be ticketed by Parking Services.

WHO DO I CALL FOR HELP?

For additional information or assistance during the transfer process, contact the UCF Office of Community College Relations Transfer Interface Program for Students (TIPS) Hotline at 823-5959.
Transfer Final Checklist

Before Completing AA degree
- meet with community college counselor for graduation check
- complete application for graduation

Application For Admission
- date submitted
- date of acceptance

Transcripts (original transcript from all institutions attended)
- date transcript sent during last term at community college
- date of final transcript sent after term completed

Financial Aid/Scholarship
- date financial aid application sent to UCF
- date need analysis form (FAFSA) sent to CSS or ACT
- date financial aid transcript sent to UCF
- date financial aid notification by UCF
- date SCHOLARSHIP application mailed or transfer notice sent
- date SCHOLARSHIP application response

Housing
- on-campus housing
- off-campus housing
- date application sent (Include deposit when required)
- date accepted

Immunization
- proof submitted with application OR
- need immunization shots

Foreign Language Requirements
- 2 years/credits earned in high school
- 8 credits earned at the community college
- credits to be taken at the university
- exempt from foreign language credit requirements

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

Program (Major) Requirements
- limited access
- prerequisites completed
- grade point average (GPA) requirements met, if applicable
- meet minimum cumulative GPA for admission to program of study
- meet cumulative GPA in courses taken for program of study
- meet grade requirements for designated courses
- audition/portfolios requirement
- ACT/SAT (education majors only)

Other:
- date of orientation at UCF
ACADEMIC PROGRAMS

UNDERGRADUATE DEGREES 

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 an overall and UCF grade point average of 2.0 or above, fulfillment of the General Education Program requirements, and completion of the last 20 credit hours in residence at UCF. In addition, any student who wishes 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 Enrollment and Academic Services, AD 210 and should be completed by the end of the first week in the semester 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 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: Anthropology, Art, Economics, English, Foreign Languages Combination, French, General Studies, History, Humanities, Interpersonal Communication, Journalism, Liberal Arts, Liberal Studies, Motion Picture Technology, Music, Music Education, Organizational Communication, Philosophy, Political Science, Psychology, Radio-Television, Sociology, Spanish, Theatre
Bachelor of Fine Arts (B.F.A.)
Majors: Art, Theatre
Bachelor of Science (B.S.)
Majors: Biology, Chemistry, Computer Science, Forensic Science, Liberal Studies, Mathematics, Physics, Psychology, Social Sciences (interdisciplinary), Statistics

College of Business Administration
Bachelor of Science in Business Administration (B.S.B.A.)
Majors: Accounting, Economics, Finance, General Business Administration, Hospitality Management, Management, Marketing

College of Education
Bachelor of Science (B.S.)
Major: Elementary Education, Exceptional Child
Major: K-12 — Art Education, Physical Education

College of Engineering
Bachelor of Science (B.S.)

College of Health and Public Affairs
Bachelor of Arts (B.A.)
Majors: Communicative Disorders, Criminal Justice, Legal Studies, Public Administration
Bachelor of Science (B.S.)
Majors: Cardiopulmonary Sciences, Communicative Disorders, Health Information Management, Health Services Administration, Medical Laboratory Sciences, Molecular Biology and Microbiology, Radiologic Sciences, Physical Therapy
Bachelor of Science in Nursing (B.S.N.)
Major: Nursing
Bachelor of Social Work (B.S.W.)
Major: Social Work

DOUBLE MAJORS
Any UCF student working toward a single bachelor's degree (a B.A. degree or a B.S. degree) who satisfies the requirements for two majors will be awarded one diploma, but both majors will be indicated on the student's permanent record. 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. Although both majors will be indicated on the student's permanent record, only one diploma (a 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, while a second degree has specific minimum requirements. (See Second Baccalaureate Degree.)

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

Transfer graduates from accredited four-year U.S. institutions who apply for admission to work toward a second baccalaureate degree at the University of Central Florida must meet the regular admission requirements of the major department and the UCF residency requirement for that degree (see residency requirement discussion in the chapter, Undergraduate Degree Requirements). Students holding the baccalaureate degree from accredited U.S. institutions are considered to have completed all General Education Program Requirements. Students who hold degrees from foreign institutions may be required by the Office of Enrollment and Academic Services 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 hours for a second degree or more than 30 hours to be taken in residence at UCF. Students should confirm department and college requirements with their academic advisors.

MINORS
Minors in a limited number of programs have been authorized for certification with baccalaureate degrees. Minors must be indicated on the Intent to Graduate card and 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.

If you plan to graduate with a minor, have that minor added to your audit during the Early Registration period. Contact the undergraduate records office of the college offering the minor for more information. All graduation requirements must be from a single UCF catalog for which a student is eligible.

ACADEMIC MINORS

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<tr>
<th>COLLEGE OR DEPARTMENT AWARDING MINOR*</th>
<th>NAME OF MINOR</th>
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<tr>
<td>College of Arts &amp; Sciences</td>
<td>African American Studies, American Studies, Canadian and Commonwealth Area Studies, Judaic Studies, Judaic Studies Certificate, Latin American and Iberian Area Studies, Psychology, Russian Area Studies, Women's Studies</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>Business Administration (for non-Business Administration majors), Economics (for non-Business Administration majors), International Business (for Business majors only), Hospitality Management, Management Information Systems (for Business and non-Business majors)</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>Aerospace Studies, Military Science, Space Studies, Technology and Society</td>
</tr>
<tr>
<td>College of Health and Public Affairs</td>
<td>Communicative Disorders, Criminal Justice, Health Sciences, Health Services Administration, Legal Studies, Microbiology, Public Administration</td>
</tr>
<tr>
<td>Multidisciplinary</td>
<td>Space Studies</td>
</tr>
<tr>
<td>Department of Art</td>
<td>Art History, P.A.V.E., Studio Arts</td>
</tr>
<tr>
<td>Department of English</td>
<td>Technical Writing and Editing, Creative Writing, Literature, Linguistics, Writing</td>
</tr>
<tr>
<td>Department of Foreign Languages</td>
<td>French, German, Italian, Russian, Spanish, and Literatures</td>
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<td>Department of History</td>
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The Pre-Health Professions Advisement Office was established to function as a service to all students preparing for and seeking admission to professional schools of chiropractic, dentistry, medicine, osteopathic medicine, optometry, pharmacy, podiatry, and veterinary medicine. The services afforded students through this office are numerous and range from basic counseling in pre-health professions matters to providing a Composite Evaluation of the student (upon his/her request) to each professional school to which the student applies. However, in order to be considered for a Composite Evaluation, the student must have at least 30 semester hours of typical undergraduate pre-health professions courses taken at UCF by the end of the spring semester preceding his/her application to the professional schools (usually between the junior and senior year). If applying to allopathic medical schools (M.D. degree granting), you will need to show an overall GPA of 3.20 or better to qualify for a full composite evaluation packet. Additionally, all pre-health professions students are strongly encouraged to affiliate with and participate in the activities of one or more of the student-related organizations such as the Preprofessional Medical Society (PPMS), American Medical School Association (AMSA), Student Wellness Advocate Team (SWAT), etc.

PRE-HEALTH PROFESSIONAL PLANNING
Admission to a health professional school is highly competitive. For this reason, pre-health professions students should pay close attention to the characteristics of successful applicants. Since pathways such as "pre-med" do not result in a degree, each pre-health professions student is urged to carefully select a degree-granting major. This will not only allow one to become more competitive for admission, but also to prepare for an alternate career in the event admission to a professional school is denied. Any degree-granting program offered by the University may be selected as a major; however, those programs within the sciences will generally lend themselves most adequately to pre-health professions preparation due to the nature and content of their curricula. While satisfying degree requirements, students will find in their curricula 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. Obviously, pre-health professions students are expected to be high achievers, and to obtain good grades with heavy credit hour loads and rigorous course combinations. Most professional schools expect applicants to present at least a B average and to carry a minimum of 15 credit hours each term, with the exception of summer terms. Sustained high-level performance while carrying 15 or more credit hours is one of the strongest predictors of success in professional school.

Preprofessional advisement should not be confused with academic advisement. Class scheduling and progress toward a given degree should be carefully monitored by the student's faculty (academic)
advisor. Course selection and scheduling, as well as progress toward a given degree, should be carefully monitored by a student's degree track faculty (academic) advisor. Preprofessional advisement deals primarily with application and admission procedures.

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 guest speakers representing the various four-year health professions. In addition, the entire preprofessional process (academic preparation, applications, admission tests, interviews, admissions, scholarships, etc.) is explained in depth. Following this focus on awareness, students are prepared to make informed decisions relative to planning their pre-health professional studies and the application process. Concerning required courses, all pre-health professions students are required to complete the General Education Program (GEP) plus the following courses (many of which are applicable to the GEP):

- General Biological Sciences: BSC 2010C, BSC 2011C
- Genetics: PCB 3063 and 3063L
- General Chemistry: CHM 2045, 2046, 2046L
- Organic Chemistry: CHM 2210, 2211, 2211L
- Microbiology: MCB 3020C
- English Composition: ENC 1101, 1102
- Calculus: MAC 2233 (although MAC 2233 is acceptable, the MAC 2311, 2312 sequence is preferable)
- Physics: PHY 2053C, 2054C (although the preceding courses are acceptable, the sequence PHY 2048, 2048L, 2049L may be preferable)
- Statistics: STA 2023

Additional required/strongly recommended courses not common to all preprofessional students are the following:

**Premedical and pre-dental** students should take:
- Molecular Cell Biology: PCB 3023
- Comparative Anatomy: ZOO 3713C or
- Human Anatomy: ZOO 3733C
- Embryology: ZOO 4603C
- Histology: ZOO 4753C
- Microbiology: MCB 3203C and PCB 3233
- Biochemistry I & II: BCH 4053, 4054
- Analytical Chemistry: CHM 3121C or Physical Chemistry, CHM 3410.

**Preoptometry** students should take:
- General Biological Sciences: BSC 2010C
- Microbiology: MCB 3203C and it is strongly recommended they take
- Human Anatomy and/or Human Physiology: ZOO 3733C, PCB 3703C

**Prepharmacy** students should take:
- General Biological Sciences: BSC 2010C
- Microbiology: MCB 3203C and it is strongly recommended they take
- Histology: ZOO 4753C and
- Biochemistry: BCH 4053

**Preveterinary** students should take:
- General Biological Sciences: BSC 2010C
- Analytical Chemistry: CHM 3121C
- Biochemistry I: BCH 4053
- Microbiology: MCB 3203C
- *Animal Science: ASG 3003, and ASG 3402
  *These courses to be taken as a transient student at the University of Florida, preferably during the summer following the sophomore year.

It is strongly recommended they also take:
- Comparative Anatomy: ZOO 3713C
- Histology: ZOO 4753C
- Embryology: ZOO 4603C and
- Biochemistry I: BCH 4053
For Maximal Preparation:
Additionally, the UCF courses Biochemistry I (BCH 4053), Histology (ZOO 4753C), Embryology (ZOO 4603C), Genetics (PCB 3063), Immunology (PCB 3223), Neuroanatomy (ZOO 5745C), Human Anatomy (ZOO 3733C), Human Physiology (PCB 3703C), and Endocrinology (PCB 5806C) are strongly recommended for maximum preparation for the Basic Medical Sciences of most first year professional school curricula.

Meaningful Electives:
All pre-health professions students are strongly encouraged to make prudent selections of elective courses complementary to their pre-health professions preparation. Listed below are a number of appropriate courses from which elective selections can be made.

ANT 4462 Medical Anthropology
ANT 2511 The Human Species
APB 3600 Introduction to Pharmacology
APB 4652 Medical Pharmacology II
COM 3011 Communication and Human Relations
DEP 3464 Psychology of Aging
HSA 3122 U.S. Health Care Systems
HSA 4121 History and Future of Health Care
HSC 3640 Health Law
HSC 3593 AIDS: A Human Concern
HSC 4564 Health Care Needs of the Elderly
HSC 4651 Health Care Ethics
HSC 4550 Pathophysiologic Mechanisms
LAT 1120/21 Elementary Latin Language and Civilization I and II
LIT 3202 Death and Dying
PHI 2101 Critical Thinking
PHI 2600 Ethics
PUP 4602 Politics of Health
SOP 3724 The Psychology of Racial Prejudice
SOW 3104 Assessing I: Human Development
SOW 3111 Assessing II: Human Systems
SOW 3203 Social Welfare and Community Resources
SPA 3000 Detection and Prevention of Speech and Hearing Problems
SPA 3002 Introduction to Communicative Disorders
SPC 3301 Interpersonal Communication
SPC 4330 Nonverbal Communication
SYG 3010 Social Problems
SYO 3410 Sociology of Mental Illness
SYO 4400 Medical Sociology
SYP 3510 Sociology of Deviant Behavior
SYP 3530 Juvenile Delinquency
SYP 3551 Sociology of Alcoholism
SYP 4550 Sociology of Drug Abuse
SYP 4730 Sociology of Aging

CHOOSING A MAJOR AND ACADEMIC ADVISEMENT
The advantage of declaring a major early is to be linked with a UCF faculty member who will serve as the student's academic advisor within his or her chosen degree track. Problems are less likely when students remain in contact with conscientious advisors.

Students are encouraged to investigate several degree pathways and to talk with a number of students who have selected those majors. Thorough investigation at the start of the student's academic career will help him or her in making a reasonable choice. The following information offers a general guideline in selecting an academic major.

Choice of Major: The aspiring pre-health professional student is expected to declare a major within one of the degree-granting departments of the University. Terms such as premed or prevet are simply descriptive labels, as UCF does not award pre-health professional degrees.

Students may elect any major described in the UCF Catalog. This includes such varied pursuits as Psychology, Engineering, or Liberal Studies.

Traditional vs. Non-Traditional Majors: Traditional majors for pre-health professionals are characterized by degree requirements which overlap most professional school admission requirements.
Chemistry, Biology, Molecular Biology and Microbiology are the majors most often chosen at UCF, but others such as Psychology, Physics, and Mathematics are also appropriate choices.

**Non-Traditional Majors:** Such majors as English, Philosophy, Music, Engineering, and so forth, have the disadvantage of not overlapping with admission requirements. 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.

Ultimately, the choice belongs to the student. 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. Factors to consider are personal interests, finance for college, and career alternatives. The curriculum for the first two years is very similar for all pre-health professions students.

**DATES OF IMPORTANCE**

All pre-health professions 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.). The applicant must be aware of which schools are members of the service and thus require completion of a thorough application packet provided by the various Application Services. Some professional schools do NOT subscribe and therefore, the student applicant must deal directly with the admissions office of such schools.

The preprofessional screening process is initiated in 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 the April 15. All other applicants (chiropractic, medical, optometry, podiatry, pharmacy, and veterinary) must return completed packets by May 1.

**ADMISSIONS EXAMINATIONS**

Various standardized examinations are required of applicants as a part of the admissions process to the professional schools (dentistry-DAT, medicine-MCAT, optometry-OAT, pharmacy-PCAT, podiatry-MCAT, veterinary medicine-GRE or VCAT). These examinations are generally offered twice each year, in the spring and fall. Pre-health professions students are advised to take the appropriate examination in the spring preceding application to the professional school rather than waiting for the fall examination. There are numerous support systems and review programs available to assist applicants with their preparation. All applicants are encouraged to maximize their preparation before registering to take any of these exams the first time. Taking an admissions exam on a trial basis is not recommended.

**RELATED REFERENCES**

Publications of special interest and usefulness to pre-health professional students include the following:

1. Admission Requirements of U.S. and Canadian Dental Schools, published by the American Associate of Dental Schools, 1625 Massachusetts Avenue, N.W., Washington, D.C. 20036
2. Medical School Admission Requirements, United States and Canada, published by the Association of American Medical Colleges, One Dupont Circle, N.W., Washington, D.C. 20036
4. Information for Applicants to Schools and Colleges of Optometry published by the Association of Schools and Colleges of Optometry, 213 East Ohio Street, Chicago, Illinois 60611
5. Pharmacy School Admission Requirements, published by the American Association of Colleges of Pharmacy, 1730 "M" Street, N.W., Washington, D.C. 20036
7. Veterinary Medical School Admission Requirements in the United States and Canada, published by the Association of American Veterinary Medical Colleges, Betz Publishing Company, 351 West Camden Street, Baltimore, MD 21201-2436

Preprofessional students are encouraged to obtain a copy of the admissions publication appropriate to their preprofessional area. Several of these publications are available in the University bookstore.

**Other Health Professions**

For Nursing and other Allied Health Professions, see College of Health and Public Affairs.
COOPERATIVE EDUCATION
Director: Sheri Dressler, PH 208, Phone (407) 823-2667

University students actively plan their careers through participation in Cooperative Education. Co-op is an academic program combining on-campus classroom study with off-campus major-related work experience for which students receive a salary. Through this program, students develop professional work competencies, test career goals, improve academic performance, generate income, and increase prospects for full-time employment upon graduation. Students may also earn credit for accomplishing learning objectives on a co-op assignment when this credit counts toward a student's degree requirements.

Students choose between two scheduling options, the alternating plan in which they alternate terms of full-time work with full-time school and the parallel plan in which they attend classes full-time and work part-time concurrently. As an additional option, Co-op administers the Florida Work Experience Program (FWEP) through which students with verified unmet financial need can apply for additional job opportunities.

Eligibility requirements for Co-op include 1) full-time enrollment in an undergraduate or graduate degree program at UCF, 2) completion of a minimum of 20 college semester hours at any accredited educational institution, 3) ability to make a minimum two semester work commitment, and 4) maintenance of a minimum 2.5/4.0 UCF grade point average.

Co-op is available to students on all campuses in all five colleges.

UNIVERSITY HONORS PROGRAM
Director: Allyn MacLean Stearman, 203 Phillips Hall, Phone (407) 823-2076, Fax (407) 823-6583
Assist. Directors: Kathleen Bartlett and Awilda Cintron
Office Manager: Gloria Lambert
Program Assistant: Glenda Rodgers

The University Honors Program at the University of Central Florida is designed to attract and challenge students who have demonstrated an ability to achieve academic excellence. The Honors Program also seeks students with particularly exceptional talents. It is committed to diversity in both the composition of its student body and the programs which it supports.

UCF's University Honors Program 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 among Honors students. Beyond the classroom, special guest lecturers and presentations, field trips, and university-related service activities expand the horizons of Honors students.

Students in the University Honors Program are actively involved in social activities and course programming. Honors students have access to an Honors lounge and study lab equipped with computers, and to housing on campus. They also have early registration privileges.

Students may pursue Honors through two distinct programs, University Honors and Honors in the Major.

University Honors. Admission into the University Honors Program is granted by the Honors Program. Students who seek admission into the program must apply directly to the Honors Program. It is the student's responsibility to obtain the appropriate Honors Program admissions information from the Honors Office and to follow the procedures necessary to enter the program. Prospective Honors students and their parents are encouraged to visit with the Honors Director if they have questions.

Students who meet the following academic criteria will be eligible for admission consideration*:

<table>
<thead>
<tr>
<th>High School Grade</th>
<th>Combined SAT Score</th>
<th>Combined ACT Score</th>
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</thead>
<tbody>
<tr>
<td>Point Average (WTD)</td>
<td>1150</td>
<td>25</td>
</tr>
<tr>
<td>3.9+</td>
<td>1250</td>
<td>28</td>
</tr>
<tr>
<td>3.7 - 3.89</td>
<td>1300</td>
<td>30</td>
</tr>
<tr>
<td>3.5 - 3.69</td>
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</table>
Acceptance: A student who plans to enter the University Honors Program and who is notified in writing of acceptance into the program must file with the Honors Program Office a brief written statement of intent to enter the program and pay dues of $60.00. The statement of intent and dues should be sent to the Honors Program Office within thirty (30) days of having received the acceptance letter. Once the student has completed the acceptance procedures, she or he will be provided with timely notice of Honors registration and orientation. The $60.00 payment will normally be by check or money order made out to: UCF Foundation-Honors Endowment. If for any reason any applicant cannot make this payment, he or she should discuss this with the Honors Director. No student will be denied admission into the program because of inability to pay the Honors Program dues.

A student who is not admitted into the program as an entering freshman may apply for admission after completing at least twelve (12) semester hours at the University of Central Florida with at least a 3.2 GPA. Non-traditional students who are returning to complete their university education after having been out of college for a period of several years, or who have never previously been enrolled in college, are especially encouraged to apply for admission to the Honors Program after one or more semesters of at least 3.2 GPA work at UCF.

Students must maintain a 3.2 overall GPA and a 3.0 GPA in Honors courses in order to remain in the University Honors Program. 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 Program; 2) complete with a "Satisfactory" (S) grade Honors Symposium; and 3) meet upper division course requirements determined by major.

Qualified students who transfer to UCF with an AA Degree with Honors from a Florida community college which has signed an Honors Articulation Agreement with the UCF University Honors Program will be admitted into University Honors with junior standing. Further information on this new program is available from the Honors Office.

Students who complete a semester abroad or receive six or more hours of upper-division credit for study abroad as part of the University Study Abroad Program, will receive credit for completion of one upper division Honors Seminar.

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 the Honors Office.

A student who completes all of the requirements for University Honors will have the designation of "Graduation with University Honors" entered on the diploma and the university transcript.

<table>
<thead>
<tr>
<th>Summary Table of University Honors Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEP</td>
</tr>
<tr>
<td>12 hours</td>
</tr>
</tbody>
</table>

Honors in the Major. Application for admission to the Honors in the Major Program will be made with the Honors Office following consultation by the student with the Department Chair or Honors in the Major Coordinator in the student's major department. An Honors in the Major Handbook which outlines the procedures for completing this program is available in the Honors Office. Requirements for admission to Honors in the Major are: the completion of at least sixty (60) semester hours of college credits including at least twelve (12) graded upper division hours at the University of Central Florida; a UCF GPA of 3.2 or higher; and a 3.5 GPA within the major; permission of the department from which Honors in the Major are sought; and permission of the Director of the University Honors Program. Participation in the University Honors Program is not a requirement for participation in Honors in the Major.

Honors in the Major is awarded upon completion of an advanced Honors Project or Thesis, and the completion of at least three (3) but not more than six (6) hours of Directed readings or Honors Seminar in the Major course work and at least three (3) but not more than six (6) hours of Honors Thesis or Project work taken in the college or department of major. Departments or colleges may set additional requirements for Honors in the Major to be achieved. Upon approval of the Honors Director and with the consent of the major department, a student may be awarded credit for an Honors Seminar in the major if six hours of upper division credit accepted by the major department or college is taken abroad as part of the University Study Abroad Program or other overseas program directly connected with the
The Honors Project or Thesis is to be completed under the direction of a committee of three faculty members, one of whom is the project or thesis Chair. This program is designed to encourage original and independent work by the student. A copy of the thesis, project, or creative work will be placed in the library with another copy remaining in the Honors Office.

By the end of the second week of the term in which a student plans to graduate with Honors in the Major, the student must file a completed "Intent to Graduate with Honors in the Major" form with the Honors Office.

A student who completes all of the requirements for Honors in the Major will have the designation of "Honors in the Major" noted on the diploma and the university transcript.

### Summary Table of Honors in the Major Requirements

<table>
<thead>
<tr>
<th>Directed Readings or Honors in the Major</th>
<th>Thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 to 6 hours</td>
<td>3 to 6 hours</td>
</tr>
</tbody>
</table>

1. When a student has an exceptionally high number of dual enrollment, Advanced Placement, CLEP, or other work which is credited toward GEP required hours, she or he may consult with the Honors Director about substituting Honors Seminar work for Honors GEP course work.

2. Honors Symposium is a one credit hour course offered in the Fall semester of each year. This course will include guest lectures, video and film presentations, and live performances by guest artists. A field trip is included as part of the Honors Symposium. Attendance at this series will be mandatory for all students seeking University Honors. Only one absence is permitted. The course is graded on a Satisfactory/Unsatisfactory basis.

3. These requirements currently are under revision. Until new requirements are approved and incorporated into the university catalog, the student will be advised at the time of orientation as to what requirements should be met to complete University Honors in any given college. If the college upper division program revisions have not been completed by the time the student enrolls in the Honor's Program, the requirements of the previous catalog (6 hours of Honors Seminar and 3 hours of Honors Lecture) will pertain. However, for the current catalog year, the student may decide to meet the previous 9 hour Honors requirement of 2 Seminars and a Lecture, undertake the new requirements as designated by the college of major (if available), or combine both options with the approval of the Honors Director.

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 for each major.

5. 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 student is responsible for filing with the Honors Office an Application to complete Honors in the Major which must be signed by the Honors Director, the Thesis Committee Chair, and the Chair or Honors Coordinator of the major department. A student must receive a grade of at least "B" in Directed Readings or Honor Seminar and Thesis hours to be awarded credit toward Honors in the Major.
DIVISION OF CONTINUING EDUCATION

Assistant Vice President/Director: Dr. J. Patrick Wagner, 12424 Research Parkway, Suite 265, Orlando, FL 32826
Phone (407) 207-4920, Fax (407) 207-4930

The Division of Continuing Education is the unit within Academic Affairs which coordinates, in collaboration with colleges, UCF continuing education programs. Programs include nonfundable credit courses and an array of noncredit programs including conferences, institutes, short courses, workshops, seminars, and camps. Many of these programs are awarded continuing education units.

CENTER FOR MULTILINGUAL MULTICULTURAL STUDIES
Director: Consuelo Stebbins, TR 547, (407) 823-5515
Assistant Director: Myrna Creasman, TR 547, (407) 823-5515

Using contemporary teaching methodology and computer-assisted instruction, the Center for Multilingual Multicultural Studies provides 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 nondegree-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.

PROFESSIONAL DEVELOPMENT CENTER AT SOUTH ORLANDO
Director: John R. Duryea, 7300 Lake Ellenor Drive, Orlando, FL 32809 Phone: (407) 856-6585

The Professional Development Center offers credit and non-credit educational programs designed to meet the professional development needs of individuals and organizations throughout the state and the region. Offerings include seminars, workshops, conferences, symposia, and certificate programs that enable practitioners to seek personal enrichment and/or professional advancement. Programs are developed in cooperation with the academic colleges and institutes, and university faculty and support services are utilized to bring maximum benefit to both non-traditional and traditional learners.

Working closely with business, professional, and service organizations, the Center designs the programs that best meet the needs of the working community. To substantiate the content of professional programs, as well as to offer credentials to verify a learner's participation, Continuing Education Units (CEU's) are offered to qualified and eligible participants.

The Professional Development Center at South Orlando is an access site for Distance Learning Classes including web-based, media enhanced, ITV, and FEEDS courses. For more information, contact the Professional Development Center. The Center is located in Orlando Central Park, a site convenient to students who live or work in southwest Orange County and north Osceola County.
INSTITUTES AND CENTERS FOR RESEARCH

CENTER FOR RESEARCH AND EDUCATION IN OPTICS AND LASERS (CREOL)

CREOL is the State University System of Florida's Center of Excellence for research and education in optical and laser sciences and engineering. CREOL was established in 1986 by the Florida Legislature to bring together diverse disciplines into a cohesive program in optics and lasers. Research activities at the Center are integrated with the academic program to insure involvement of both students and faculty. CREOL has 28 faculty positions devoted to lasers and optical sciences and engineering, of which 22 have been filled by scholars from around the world. CREOL Faculty are among the best in the laser/optics fields - half hold the rank of Fellow in major national and international societies associated with optics [e.g. Optical Society of America (OSA), the International Optical Engineering Society (SPIE), etc.]. The faculty serve in major leadership positions in these societies, including service on the Boards of Directors and as officers of the societies. In a typical year approximately 50% of the faculty are asked to chair, co-chair, or serve organizing committees of major national and international conferences dealing with their research specialties. The faculty and students of CREOL typically produce over 200 scholarly works per year. CREOL is located adjacent to the other science buildings on the campus of UCF in a new 82,000 square foot research facility.

Research Program
CREOL research projects reflect the interdisciplinary nature of the faculty and their diverse interests, and is supported by federal, state, and industrial research grants. Faculty and students pursue joint research projects with industry and government laboratories. Current research activities include: laser propagation, laser/material interaction, non-linear optics, integrated and guided-wave optics, infrared systems, optical signal processing, laser development, detector technology, ultrafast phenomena, modern x-ray optics and lithography, laser plasma, nonlinear optical spectroscopy, diffractive optics, thin film optics, free electron lasers, photonics, optoelectronics, semiconductor optical device integration, growth of nonlinear and laser host materials, solid state and diode pumped lasers, laser-aided materials processing and manufacturing, glass processing and characterization, optics manufacturing, and much more. The research facilities include ninety laboratories equipped with over twelve million dollars of state-of-the-art optics equipment.

Academic Program
The academic program involves students from various science and engineering departments and reflects the diverse interest of the faculty and students. Degrees of M.S. and Ph.D. in Optical Sciences and Engineering, Optical Physics, Electrical Engineering, and Mechanical Engineering are offered at UCF. The academic program includes 25 specialized courses in electro-optics and lasers as well as advanced Electrical Engineering and Physics courses. Graduate research assistantships are available with stipends ranging from $14,000 to $16,500 for 12 months. Exceptional students will be considered for assistantship enhancements up to $4,000 through the Litton Foundation. Prestigious National Science Foundation (NSF) Graduate Traineeships are available for exceptional Ph.D. students for up to $22,500 per year including tuition. NSF Programs require that applicants be a U.S. Citizen or permanent resident.

Research Experiences for Undergraduate Students
Summer undergraduate fellowships are available through the Research Experience for Undergraduates Program in Optics & Lasers. Students receive a $3,300 stipend and a housing allowance, with funds provided jointly by the National Science Foundation and CREOL. Ten students per year are selected from around the U.S. to participate in an 11-week research project. The program encourages talented students, particularly minorities and persons with disabilities, to pursue graduate studies in optics and lasers.

For information contact CREOL/UCF, PO Box 162700, Orlando, FL 32816-2700. telephone (407) 823-6800, FAX (407) 823-6880, email: reu@creol.ucf.edu Contact: Dr. M. J. Soileau, Director, or Dr. M. G. Moharam, Associate Director.

INSTITUTE FOR SIMULATION AND TRAINING (IST)

The Institute for Simulation and Training (IST) is a research institute of the University of Central Florida focusing on technology advancement in simulation, training systems, and education. The Institute serves as a focal point for the simulation and training community by providing research and education services and as an information center for simulation and training research.

IST is located in the Central Florida Research Park, adjacent to the UCF campus. The park is also home to the Army Simulation, Training and Instrumentation Command (STRICOM), the Naval Air Warfare Center Training Systems Division (NAWCTSD), and the Air Force Agency for Modeling and Simulation (AFAMS). In all, over 150 companies specializing in simulation and training (S&T) technologies are located in Central Florida. These organizations represent the largest concentration of S&T expertise in the world.
IST's research staff consists of scientists, engineers, and students. IST researchers conduct basic and applied research for a broad range of training devices and programs. Research areas include:

Simulation networking
Computer architectures
Autonomous Computer Generated Forces
Database design and development
Computer graphics and animation
Training systems effectiveness
User interface design
Dynamic Terrain
Simulation modeling
Virtual Reality
Instructional Systems Design
Simulation Architectures

Laboratories, work space, and administrative offices occupy nearly 38,000 square feet of floor space. Major laboratories include Visual Systems, Computer Generated Forces, Mathematics Simulation laboratories, Medical Simulation, PL Based Graphics, and the Advanced Learning Technology Transfer Center.

IST actively works with UCF to assist in the development of simulation related curricula. UCF was the first university in the nation to offer a master's degree in simulation systems. More than 100 graduate and undergraduate students work at the Institute in a variety of research and support positions. IST researchers and students have presented award winning papers at conferences throughout the country.

In its role as a leader in the simulation and training community, the Institute has undertaken a program of technology transfer. Included in this effort is the development of research projects with potential commercial applications, adaptation of military technology to civilian markets, and the communication of research results through seminars, publications, and workshops.

Contact: Dr. A. Louis Medin, Executive Director, 3280 Progress Dr, Orlando, FL, 32826-0544, Phone (407) 658-5000; FAX (407) 658-5059

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 exploration 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. FSI assists any university with its project if appropriate and within FSI capabilities. As an example FSI is partially financially supporting a FIT and a BCC/Brevard payload as well as assisting with support facilities at Building AM at Cape Canaveral.

The undergraduate curriculum at Cape Canaveral is the primary focus of FSI. This curriculum helps produce the prime "products" of FSI that will help build the labor pool for a new payload/satellite industry in Florida. Undergraduate students are offered practice-based courses and research projects conducted directly at the Cape. Students learn how to design and build payloads and receive hands-on experience with research projects that have impact on the entire world. FSI undergraduate students are part of research teams led by graduate students and faculty. This permits undergraduate students to participate in real and meaningful projects as opposed to the typical undergraduate laboratory experience with contrived experiments. FSI is committed to bringing the space industry into the next century in the areas of remote sensing, communication, and deep space exploration.

Not only do the faculty from the partner FSI universities conduct classes on USAF Cape Canaveral Air Station, but each holds office hours at the FSI Building AM facilities for academic guidance and counseling of students. There is some small amount of overlap in the various education programs but generally FIT offers graduate programs in business management relevant to the launch business, BCC offers technology and training relevant to the launch business, and UCF offers engineering through its FEEDS program and executive Engineering Management MS programs.
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, located in the College of Business Administration at the University of Central Florida, is

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 a vast assortment of 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.

Contact: Dr. Ron Phillips, 12424 Research Parkway, Room 400, Orlando, FL 32826, Phone: (407) 658-5599, Fax: (407) 658-5595, email: ronaldp@pegasus.cc.ucf.edu.

FLORIDA SOLAR ENERGY CENTER (FSEC)

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its new 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. FSEC's work encompasses research and testing programs of national interest for a variety of external sponsors. The yearly value of FSEC's external contracts exceeds its state support by a factor of two. Through its public information office, FSEC responds to more than 15,000 requests for energy information each year. The Center also 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 new international Renewable Energy Training and Education Center is providing educational programs for government and industry leaders around the world. For additional information, contact the Florida Solar Energy Center, 1679 Clearlake Road, Cocoa FL 32922-5703.

Contact: Dr. Jefferson M. Koonce, Director and Chief Scientist, Phone (407) 823-1011; FAX (407) 823-5862.

FLORIDA CANADA LINKAGE INSTITUTE

The Florida Canada Linkage Institute assists in extending the undergraduate and graduate education experience at the University of Central Florida through curricular and other dimensions that provide a culturally diverse education. The linkage institutes were created by the Florida Legislature to assist in the development of stronger economic and social ties between Florida and strategic foreign countries. 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. Persons interested in Canada or Canadian students studying in Florida are especially welcome to contact the institute offices at the University of Central Florida.

Contact: Dr. Warren McHone, Co-Director, Phone (407) 823-2629 (UCF Orlando), Institute's Phone (904) 255-7423 Ext. 4014 or SunCom 372-4014, FAX (904) 947-3127. Address is The Florida Canada Linkage Institute, P.O. Box 2811, Daytona Beach, FL 32120-2811.

FLORIDA EASTERN EUROPE LINKAGE INSTITUTE

The Florida Eastern European Linkage Institute (a Class II state-mandated activity) is a statewide effort hosted by the University of Central Florida in partnership with Lake Sumter Community College, 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 Executive Office of the Governor and the Office of Academic Affairs and located in the College of Health and Public Affairs on the main campus of the University of Central Florida, 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.

Contact: Dr. Jean C. Kijek, Director, UCF, HPB 350D/E, P.O. Box 160155, Orlando, Florida 32816-0155. Voice Mail: (407) 823-3647/48. FAX: (407) 823-3649. E-mail: eell@pegasus.cc.ucf.edu.
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
- Marketing
- Bookkeeping
- Sources of Financing
- Business Tax
- Product Innovation
- Franchising
- Business Plan Development

Additional programs provide assistance to clients in the areas of government contracting, energy conservation, and international trade.

Contact: Mr. Aloyse T. Polfer, Director, BA 309, Phone (407) 823-5554.

**CENTER FOR ECONOMIC EDUCATION**

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 and the Florida Council on Economic Education, the Center also conducts research in economic education.

Contact: Dr. Robert L. Pennington, Director, BA 325, Phone (407) 823-2870

**INSTITUTE FOR STATISTICS**

The Institute for Statistics provides statistical consulting and analytical support to all areas of the University. The Institute makes valuable contributions to research by supporting non-statistical researchers with statistical consulting assistance during the planning of experiments and investigations, analysis of data, and the evaluation of results. The Institute also provides statistical support to various government agencies and private organizations.

Contact: Dr. Mark E. Johnson, Director, Phone (407) 823-2289.

**DICK POPE, SR. INSTITUTE FOR TOURISM STUDIES**

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 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.

Contact: Dr. Abraham Pizam, Interim Director, Phone (407) 823-2188

**SMALL BUSINESS INSTITUTE**

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.

Contact: Dr. Ron Rubin, Director, Phone (407) 823-2682
The Institute of Government, an affiliate of the Florida Institute of Government, is housed in the College of Health and Public Affairs and provides training and development as well as technical assistance to federal, state, and local government agencies and intergovernmental associations. 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.

Director: Ms. Marilyn Crotty, Phone: (407) 317-7745, FAX (407) 317-7750.

The Institute for Technical Documentation offers a variety of services for client companies, including the development of original technical documentation, the translation of documentation written in foreign languages, and the development of seminars to assist clients in writing their own documentation.

The Institute consists of a core of permanent professional staff, supplemented by University faculty, staff, and students, all of whom have demonstrated expertise in technical writing of documentation. These services are enhanced by the cooperative efforts of educators, engineers, foreign language experts, psychologists, and scientists who act as consultants to the Institute.

Trained writers, established facilities, and continued contact with personnel in industry and research enable the Institute to engage in a wide variety of documentation projects.

Contact: Dr. Daniel Jones, Director, FA 301, (407) 823-2212.

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

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

The Center serves as a valuable resource in executive training and development by offering programs that address critical issues for managers and business leaders. These programs are offered in a variety of formats suitable for any individual or corporation through:

- Public enrollment programs
- Customized corporate programs
- Executive MBA Program
- Nationally renowned speakers

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.

Contact: Mr. Donald C. Hoke, Director, (407) 823-2446

Since 1989, students and faculty of the University of Central Florida have benefited from its membership in Oak Ridge Associated Universities (ORAU), a consortium of colleges and universities and a management and operating contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education, the DOE facility that ORAU manages, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the Resource Guide and the Minority Research Education Programs brochure, which are available by calling the contacts below.
the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the Resource Guide and the Minority Research Education Programs brochure, which are available by calling the contacts below.

ORAU’s office for University, Industry, and Government Alliances (UIGA) seeks opportunities for collaborative research and development alliances among ORAU’s members, private industry, and major federal facilities. Current alliances include the Southern Association for High Energy Research, the Bioelectromagnetics Research Consortium, High Performance Computing, Bioprocessing, Pan American Association for Physics, Materials Science Forum, and international initiatives in support of the New Independent States in Central and Eastern Europe. Other UIGA activities include the sponsorship of conferences and workshops, the Visiting Scholars program, and the Junior Faculty Enhancement Awards. A copy of Especially for Members, which details UIGA’s programs, is available from the contacts below.

For more information about ORAU and its programs, contact Dr. A. Louis Medin, ORAU Council member, at (407) 658-5000; or contact Beth Hutson, ORAU Corporate Secretary, at (615) 576-3306.
The College of Arts and Sciences, the largest academic unit in the University, includes the following departments: Art; Biology; Chemistry; English; 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 School of Computer Science, as well as the Nicholson School of Communication. The latter 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 departments collectively offer more than sixty baccalaureate, graduate, and preprofessional programs. For additional information concerning graduate programs, please refer to the Graduate Catalog.

In addition to providing academically strong departmental programs in the areas noted above, the College of Arts and Sciences offers a wide selection of courses which are designed to complement the programs of the other four 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 2.0 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 Coordinator: Dr. Roger Handberg, FA 414, (407) 823-2608

There is no preferred major for prelaw. 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 Prelaw Coordinator.

Advisement of prelaw students will be provided in the area where a major is chosen. For example, a prelaw student who wishes 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 which fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional section for additional information.

ADVICE

OFFICE OF ACADEMIC SUPPORT AND INFORMATION SERVICES (OASIS)
Director: Ms. Judith Boyte, FA 202, (407) 823-2492

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 of Arts and Sciences with matters concerning College and University requirements, policies and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits (CLEP and AP) 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 FA 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 chair of the major department or the Dean of the College of Arts and Sciences.

FOREIGN STUDY CENTERS

Undergraduate Interinstitutional 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 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 Dr. Thomas Greenhaw in the Department of History (London Program), at (407) 823-2224 or Dr. Robert Flick in the Department of Philosophy (Florence Program), at (407) 823-2273.

DEGREES

<table>
<thead>
<tr>
<th>Title</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Advertising/Public Relations</td>
<td>BA</td>
</tr>
<tr>
<td>African-American Studies</td>
<td>Minor</td>
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<tr>
<td>American Studies</td>
<td>Minor</td>
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<tr>
<td>Anthropology</td>
<td>BA</td>
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<tr>
<td>Art</td>
<td>BA, BFA</td>
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<tr>
<td>Asian Studies</td>
<td>Minor</td>
</tr>
<tr>
<td>Biology</td>
<td>BS, MS</td>
</tr>
<tr>
<td>Canadian and Commonwealth Studies</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Communication</td>
<td>MA</td>
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<td>Community Arts - PAVE</td>
<td>Minor</td>
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<tr>
<td>Computer Science</td>
<td>BS, MS, PhD</td>
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<tr>
<td>CREAT</td>
<td>Certificate</td>
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<td>Economics</td>
<td>BA</td>
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<td>English</td>
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<tr>
<td>English as a Second Language</td>
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<tr>
<td>Film &amp; Animation-Motion Picture Technology</td>
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<td>Foreign Language Combination</td>
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<td>Forensic Science</td>
<td>BS</td>
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<td>French</td>
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<tr>
<td>History</td>
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<td>Humanities</td>
<td>BA</td>
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<td>Interpersonal Communication</td>
<td>BA</td>
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<td>Journalism</td>
<td>BA</td>
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<td>Judaic Studies</td>
<td>Minor</td>
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<tr>
<td>Latin-American and Iberian Area Studies</td>
<td>Minor</td>
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<td>Liberal Arts</td>
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<td>Music</td>
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<td>Philosophy</td>
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<tr>
<td>Physics</td>
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<tr>
<td>Political Science</td>
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<tr>
<td>Psychology</td>
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<tr>
<td>Radio-Television</td>
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<tr>
<td>Russian Area Studies</td>
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<tr>
<td>Social Sciences</td>
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<td>Statistics</td>
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<tr>
<td>Theatre</td>
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<tr>
<td>Women’s Studies</td>
<td>Minor</td>
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DEPARTMENTS AND PROGRAMS

AFRICAN-AMERICAN STUDIES: PROGRAM
Director: Dr. Gladstone Yearwood, HFA 201, (407) 823-0026

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 African American Studies minor provides an overview of the main currents in African American arts, history, and culture.

DEGREES: None
Tracks: None
Minors: African-American Studies

AMERICAN STUDIES: PROGRAM
Director: Dr. S. Leckie, CAS 191, (407) 823-2573

The College of Arts and Sciences offers a minor in American Studies. This program requires students to select relevant restricted electives from literature, humanities, social sciences and history.

DEGREES: None
Tracks: None
Minors: American Studies

ANTHROPOLOGY
(See Sociology and Anthropology)

ART: DEPARTMENT
E-mail: art@ucf.edu
Interim Chair: Dr. Joyce Lille, VAB 117, (407) 823-2676

Faculty: Abbas, Abraham, Collins, Chavda, Congdon, Eyfells, Francis, Gaudnek, Haran, Haxton, Lotz, Martin, Reed, Rivers, Wahlman, Wellman

The Department of Art has 16 full-time and 12 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 cell animation, computer 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: Art History, Studio Art
Minors: Art History, Studio Art, Partners in Visual Art Administration

ASIAN STUDIES: PROGRAM
Director: Dr. Daniel White, FA 411, (407) 823-5076

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

BIOLGIOY: DEPARTMENT
http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu
Chair: D.H. Vickers, BL 210, (407) 823-2141

Faculty: Ehrhart, Kuhn, Lindbeck, Osborne, Rea, Snelson, Stout, Sweet, Taylor, Vickers, von Kalm, Walters, Weisshampel, Whittier, Ellis (Professor Emeritus), Koevenig (Professor Emeritus)

The Department of Biology offers a Bachelor of Science and a minor in Biology, and the Master of Science in Biology. 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)
Tracks: Biology Preprofessional (BS)
Minors: Biology

CANADIAN & COMMONWEALTH AREA STUDIES: PROGRAM

Director: Dr. S. Leckie, CAS 191, (407) 823-2573

Canadian & Commonwealth Area Studies offers a minor degree. The program focuses on various aspects of Canada, the United Kingdom, and Commonwealth countries. Two tracks are offered to address more specific interests of students.

Degrees: None
Tracks: Canadian Studies, Commonwealth Studies
Minors: Canadian & Commonwealth Area

CHEMISTRY: DEPARTMENT

E-mail: chemistry@ucf.edu
Chair: G. Cunningham, CH 117, (407) 823-2246
Faculty: Ballantyne, Belfield, Clausen, Elsheimer, Geiger, Hampton, Juge, Kajawa (Geology), Madsen, McGee (Forensic Science), Miles, Phanstiel, Price, Richardson

The Department of Chemistry offers courses and programs which lead 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 Serology
Minors: Chemistry

COMMUNICATION: NICHOLSON SCHOOL

E-mail: communication@ucf.edu
Director: Mike Meeske, COM 240-A, (407) 823-2681
Faculty: Bagley, J. Butler, DeLorme, Fedler, Hall, Hoglin, F. Johnson, Maunuez-Cuadra, Meeske, Mats, T. Morgan, O'Hara, Pryor, Cristina-Santana, R. Smith, Tanzi, Taylor, Wycoff

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 train 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 (News/Editorial). 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.

Minors are offered in Interpersonal Communication, Organizational Communication, Magazine Journalism, and Mass Communication. A Master of Arts degree in Mass Communication is offered.

Facilities

The Radio-Television Division has fully-equipped audio and video production facilities, a complete multi-camera television studio, 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 presentation 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: None
Minors: Interpersonal Communication, Magazine Journalism, Mass Communication, Organizational Communication

COMPUTER SCIENCE: SCHOOL

Director: T. Frederick, CSB 201, (407) 823-2341
Faculty: Allen, Bassini, Brigham, Cosgrove, Deo, Dutton, Enger, Frederick, Gerber, Gomez, Goudreau, Guha, Hu, Hughes, Hunter, Johnson, Lang, Leeson, Lobo, Moskell, Mukherjee, Orooji, Parsons, Rogers, Rolland, Shah, Vemulapati, Workman

The School of Computer Science 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 School offers a minor in Computer Science and a minor in Applied Computer Science.

The School strives to meet the computer personnel needs of the scientific, business, and industrial community by producing graduates with a broad base of formal courses as well as a concentration in selected areas. In addition, the School conducts research in computational biotechnology, computational complexity, computer architecture, computer graphics, databases, analysis of algorithms, distributed computing, digital media, graph theory, machine learning, natural language processing, operating systems, parallel processing, computer vision, software engineering and VLSI design tools.

Accreditation

The B.S. program in computer science is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Council on Postsecondary Accrediting (COPA) and the U.S. Department of Education.
Computer Facilities

The School of Computer Science provides computer laboratories for faculty and students, a variety of courses and research projects. The computing facilities are divided into two areas, teaching and research.

The school's infrastructure computing facilities are centered around several UNIX based servers, including a Sun UltraSparc Enterprise 3000 dual processor server, a UltraSparc Enterprise 2 Server and an NT based Dual Pentium server. These servers support a network of Sun SPARC stations, 486 and Pentium based PCs, and Macintosh computers. Off campus access is available through dialup modems configured with PPP for direct connection to the network.

Research Laboratories

The Center for Parallel Computation houses an Intel Paragon, MasPar MP-1, and a BBN Butterfly along with several DECstations. The Architecture and VLSI Laboratory includes a Sun SPARCServer 690MP and a collection of Sun SPARCstations which access a repository of over one gigabyte of VLSI design software on a SPARCserver 690MP. Students and researchers use these tools to design VLSI chips, which upon completion are fabricated by MOSIS.

The Computer Vision Laboratory centers around Sun Ultra 2 Creator and SPARCserver 670MP connected to a network of high-end Sun and Silicon Graphics workstations. A large amount of equipment is available to support the capture and manipulation of digital images. A CRS-Plus five-degree-of-freedom robot arm is also available for machine vision experiments.

The Artificial Intelligence Laboratory contains four SPARC stations, and three Symbolics 3653 LISP machines. Each platform supports some flavor of LISP; Allegro CL on the Suns, and Symbolics LISP on the Symbolics. The lab is also equipped with a modest library of AI related journals, technical reports and books.

The Distributed Computing and Networking Laboratory consists of several heterogeneous machines including a SGI High Impact, SGI Indys, Sun SPARCstations, Macintosh and Pentium based computers. These machines are connected with a 10/100 Mb ethernet network to a Silicon Graphics Challenge S-server.

The Digital Media Laboratory consists of twenty NCR PC compatible machines connected to an NT based server. These machines along with Sun and SGI workstations provide a platform for the development and testing of digital media software.

IST includes an Evans and Sutherland ESIG 500 real time image generator, several Silicon Graphics Iris workstations, several Suns SPARCstations, and many Macintoshes and PCs. The CREAT lab includes 5 SGI Indy workstations running Alias/Wavefront 3D modeling and animation software.

A new lab has been formed to support research in software engineering. This lab currently contains an NT based server connected to a cluster of Digital PC machines. These machines are currently used for research in distance learning, web authoring (e.g., Java), and GUI development.

Other Facilities

Other campus wide computing facilities available to students and faculty include a network of UNIX based IBM RS/6000 workstations, and several large clusters of Pentium class PCS interconnected via a Novell network. The campus network includes connections to the Central Florida Research Park and to the State Network. The latter affords access to supercomputer cycles on the Cray Y-MP at the Supercomputer Research Institute in Tallahassee. In addition, the campus is directly linked to the Internet via a T1, affording on-line access to the other computer systems around the world.

Degrees: Computer Science (BS, MS, PhD)
Tracks: None

Minors: Applied Computer Science, Computer Science

CREAT: PROGRAM

create@cas.ucf.edu
Director: Dr. J. Michael Moshell, CSB 234, (407) 823-5341
Artistic Director: Mr. David Haxton, VAB 117, (407) 823-3110

The Consortium for Research and Education in the Arts and Technology is an interdisciplinary program offered in the College of Arts and Sciences. Contributing academic units include the Departments of Art, English, Music, and Theatre; the Film Program; and the Schools of Communication and Computer Science. Students from any major may participate.

CREAT offers a certificate program in Digital Media which provides students an opportunity to study the evolving field, and to participate in junior and senior projects in partnerships with media professionals. Admission to the CREAT program requires the presentation of a portfolio of work which demonstrates the student's creativity and technical accomplishment in some artistic or technical domain.

Degrees: Certificate in Digital Media
Tracks: None

ENGLISH: DEPARTMENT

E-mail: english@ucf.edu
Chair: D. Trouard, FA 301, (407) 823-2212
Faculty: Adicks, Aplien, Barnes, Bartkevicius, Bell, Brain, Campbell, Casimir-Paz, Davidson, Dombrowski, Donnelly, Flamia, Gillette, Greenberg, Hammons, Henschmeyer, Hubbard, Jones, Kamrath, Kesler, Leiby, Lillios, Logan, Marinara, Meehan, Omran, Puccio, Rushin, Schell, Schiffhorst, Seidel, Smith, Sommer, Stag, Wyatt, Young

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)
Tracks: Literature, Creative Writing, Technical Writing
Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

FILM & ANIMATION: PROGRAM

E-mail: film@ucf.edu and animation@ucf.edu
Acting Program Director: David Franklin, COM 218, (407) 823-5540
Faculty: Bloom, Collins, Franklin, Harpole, Haxton, M. Johnson, B. Jones

The Film & Animation program offers a Bachelor of Arts Degree in Motion Picture Technology. Students have the option of selecting a specialized track in either Film Production/Screenwriting or in Animation.

Because this is a limited access program, students should pay close attention to the program admission requirements.

Degrees: Motion Picture Technology (BA)
Tracks: Film Production/Screenwriting, Animation
Minors: Film-Cinema Studies, Film-Screenwriting

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FOREIGN LANGUAGES AND LITERATURES:
DEPARTMENT
E-mail: foreignlanguages@ucf.edu
Chair: J. B. Fernández, FA 523, (407) 823-2472
Faculty: Barsch, Castaneda, Cervone, Decker, Del-Rio, DiPierro, Fabery, Fernández, Horzen, Korosy, Letiche, López, Maier, Martinez, Montgomery, Nalbone, Redmon, Rose, Sánchez, Smith, Stebbins, Taylor, Micarelli (Professor Emeritus)

Language studies in the College of Arts and Sciences provide instruction in Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a combination of two languages. 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 a week.

Students wishing 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)
Tracks: None
Minors: French, German, Italian, Spanish

FORENSIC SCIENCE: PROGRAM
Director: W. W. McGee, CH 221, (407) 823-2788

Forensic Science is the profession which serves the scientific needs of the justice system. The program at UCF has been designed to provide the student with an educational background in criministics. 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 Serology Track.

Degrees: Forensic Science (BS)
Tracks: Forensic Analysis, Forensic Serology
Minors: None

HISTORY: DEPARTMENT
E-mail: history@ucf.edu
Chair: Richard C. Crepeau, FA 544, (407) 823-2224
Faculty: Adams, Austin, Beller, Doran, Evans, Fernandez, Fetscher, Frederickson, Greenhaw, Kallina, Leckie, Pauley, Velez, Wallace, Zhang

History majors who are interested in a prelaw program should work closely with their departmental advisors in selecting major courses and electives which will best prepare them for law school. These students should use their electives for additional courses in history as well as English, speech, and philosophy. Such a course of study will prepare them for success in law school and will concomitantly provide a broad liberal education.

The History Department encourages its majors, especially those in American History, to develop their statistical and computer skills by completion of appropriate course work in the Department of Statistics.

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)
Tracks: None
Minors: History

JUDAIC STUDIES: PROGRAM
E-mail: judaicst@ucf.edu
Program Director: Professor Moshe Pelli, FA 201, (407) 823-5039 or 823-5129

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 Sciences, and Sociology/Anthropology, and with the Liberal Studies and Women's Studies Programs.

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 civilization and culture and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Jewish 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 incorporated 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 & IBERIAN AREA STUDIES: PROGRAM
E-mail: foreignlanguages@ucf.edu
Director: Dr. Jose Fernandez, FA 201, (407) 823-2472

The Latin American and Iberian Area Studies Minor is an interdisciplinary academic program whose objective is to provide students with an understanding of Latin American and Iberian 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 and Peninsular Affairs.

Degrees: None
Tracks: None
Minors: Latin American and Iberian Area Studies

LIBERAL STUDIES: PROGRAM
E-mail: liberalstudies@ucf.edu
Program Director: Dr. Donald E. Jones

The Liberal Studies Program offers students the opportunity to pursue interdisciplinary studies through two different programs of study, the Liberal Arts Track and the General Studies Track.

Degrees: Liberal Arts (BA), General Studies (BA and BS)
Tracks: Liberal Arts, General Studies
Minors: None
MATHEMATICS: DEPARTMENT
E-mail: math@ucf.edu
Chair: Dr. John R. Cannon, Ph.D. 403, (407) 823-6284

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 wish to pursue careers in mathematics after having completed a baccalaureate degree; (2) students who wish 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 precalculus 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 (B.S., M.S., Ph.D.)
Tracks: Pure Mathematics, Applied Mathematics
Minors: Mathematics

PHILOSOPHY: DEPARTMENT
E-mail: philosophy@ucf.edu
Chair: J. Riser, FA 411, (407) 823-2273
Faculty: Hawkes, Jones, Kasim, Levensohn, Park, Riser, White

The Department of Philosophy offers a Philosophy major and a multicultural Humanities major, as well as minors in Philosophy, Humanities, Religious Studies, and Asian 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, Asian Studies

PHYSICS: DEPARTMENT
E-mail: physics@ucf.edu
Chair: TBA, HPB 310, (407) 823-2325

Physics is a basic science. Students learn scientific, laboratory, computer, and mathematical skills which prepare them for a variety of careers. These include research and development, teaching in schools, colleges, and universities, and the many careers (such as finance, business, or law) in which a technical degree offers an unusual edge.

The Department of Physics offers B.S., M.S., and Ph.D. degrees. Besides the traditional topics of classroom and laboratory physics, our programs (both undergraduate and graduate) emphasize developing expertise in scientific computation and carrying out professional research in collaboration with faculty members.

All of our students are encouraged to use the department's networked computer workstations and PCs. In addition, many of the advanced courses require and teach the use of computers to solve real-world scientific and engineering problems.

Undergraduates are encouraged to become involved in research with faculty. There are many research opportunities in such areas as optical, laser, condensed matter, atomic, molecular, particle, plasma, and gravitational physics. Graduate programs emphasize research. Physics courses which are required by other majors are offered regularly, as is the course, Physical Science, which satisfies the general education requirements. Students interested in being a physics major are encouraged to see a faculty advisor as soon as possible to design a curriculum. An appointment to see the departmental advisor is necessary prior to registering each semester.

Degrees: Physics (BS, MS, PhD)
Tracks: None
Minors: Physics

POLITICAL SCIENCE: DEPARTMENT
E-mail: politics@ucf.edu
Chair: R. L. Bledsoe, FA 415, (407) 823-2608
Faculty: Benson, Bledsoe, Bradford, Fine, Hall, Hamann, Handberg, Hewett, Kiel, Lanier, J. Lille, S. Lille, McCoy, Morales, Pollock, Sadri, 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 prelaw 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 Dr. Robert Bledsoe.
- Canadian and Commonwealth Studies: Contact Dr. M. Elliot Vettes.
- Latin American and Iberian Studies: Contact Dr. Waltraud Q. Morales.
- Russian Area Students: Contact Dr. Gregg Hall.
- Space Studies: Contact Dr. Roger B. Handberg, Jr.
- Women's Studies: Contact Dr. Joyce R. Lilie

**Degrees**: Political Science (BA, MA), Economics (BA)

**Tracks**: American Politics, International Relations-Comparative Politics, Prelaw

**Minors**: Political Science, Political Science/Prelaw

**PSYCHOLOGY: DEPARTMENT**

E-mail: psychology@ucf.edu

Chair: J. McGuire, PH 302B, (407) 823-2216

Associate Chair: J. Smither, PH 309G, (407) 823-2216

Faculty: Abbott, Blau, Bowers, Brophy, Burroughs, Dunn, Fisher, Forbes, Friztsche, Gilson, Hanson, Hitt, Jensen, Koonce, Lavoy, McGuire, Morgan, Mouloua, Newlin, Rinalducci, Rollins, Shirley, Smither, Tell, 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.

**Degrees**: Psychology (BA, BS, MS, PhD)

**Tracks**: None

**Minors**: Psychology

**RUSSIAN AREA STUDIES: PROGRAM**

Contact Dr. R. Crepeau, FA 551, (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 Person: J. Boyte, FA 208, (407) 823-2492

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**

E-mail: anthropology@ucf.edu, sociology@ucf.edu

Chair: Dr. J. Corzine, FA 405, (407) 823-2227

Faculty: Baird-Olson, Carey, A. Chase, D. Chase, Cook, Dees, Dietz, Gay, Holliday, Huff-Corzine, D. Jones, Lynxwiler, Morris, Mustaine, Pitman, Stearman, Wallace, Winton, 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**

E-mail: statistics@ucf.edu

Interim Chair: Dr. D. Nickerson, CCII 212, (407) 823-5562

Faculty: Cutchins, Hoffman, Jamshidian, Johnson, Nickerson, Pepe, Richardson, J. Schott, S. Schott, Somerville, M. Wang

The Department of Statistics offers courses and programs which lead to a Bachelor of Science in Statistics, 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 are designed to serve (1) students who wish to pursue careers in statistics after having completed a baccalaureate degree; (2) students who wish to continue their education in graduate or professional schools; and (3) students who use statistics 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 have 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, and statistical computing.

A limited number of assistantships are available for qualified graduate and undergraduate students.

**Degrees**: Statistics (BS, MS)

**Tracks**: None

**Minors**: Statistics

**THEATRE: DEPARTMENT**

E-mail: theatre@ucf.edu

Chair: Dr. D.W. Seay, THE 120, (407) 823-2861.

Faculty: Brotherhon, Colangelo, Earnest, Harris, Hart, Huaxiang, Kopp, Major, Rinaldi, Rusnock, Seay, Smith, Siegfried

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, Technical Theatre/Design, Stage Management
Minors: Theatre

WOMEN'S STUDIES: PROGRAM
Director: Dr. Carole Adams, HFA 201, (407) 823-6502

The Women's Studies program offers an interdisciplinary minor 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: None
Tracks: None
Minors: Women's Studies
The mission of the College of Business Administration at the University of Central Florida is to provide quality business education programs, at the undergraduate, graduate, and executive levels, to the citizens of the state of Florida and to selected clientele nationally and internationally. In delivering these programs, the College places primary emphasis on excellent teaching and research with a strong commitment to developing mutually supportive relationships with the business community of Central Florida.

In pursuit of its mission, the College of Business Administration affirms its commitment to the University's focus on excellence and accent on the individual. Furthermore, the College pledges to deliver innovative and progressive programs to its clientele, and a commitment to service in the community, not only from its faculty but also its students. As the College approaches the twenty-first century, it has adopted "Driven by Excellence" as a motto and guiding force in achieving its goals and objectives. All undergraduate and graduate programs are accredited by the American Assembly of Collegiate Schools of Business (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.
- See 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. Grades of "D" will not transfer into the program. Each student should attend orientation for academic advising and should meet with an academic counselor in the College to outline a program of study.

Attendance at the first meeting of any College of Business course is mandatory. Students not in attendance at the first meeting may be dropped from the course. 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.

BE2000

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. We call it Business Education 2000 (BE2000). The product of the alumni, faculty, business leaders, and students, the BE2000 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
- ECO 3401: Quantitative Business Tools I
- BUL 3130: Legal & Ethical Environments of Business
- ECO 3411: Quantitative Business Tools II
- FIN 3403: Business Finance
- MAN 3025: Management of Organizations
- MAN 3504: Quality and Productivity Management
- MAR 3023: Marketing
- GEB 4361: Business in the International Environment
- 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 and Marketing where a "C" or better is required in each course and a minimum 2.0 is required overall.

Student Load

A student who is enrolled in 16 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 16 hours of course work must obtain permission from the College.

Community/Junior College Transfers Notes

1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida's community and junior colleges should complete the following courses as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 211), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023, and the relevant computer applications course. At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401, Business Quantitative Tools I. Students who have completed either MAC 2233 or STA 2023, but not both, must take ECO 3401. Completion of these courses will satisfy all prerequisite course requirements for all business and accounting degree programs and will ensure that a student will receive further consideration for admission.

2. Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF's Business program.

3. Florida Public Community College students are advised to complete the Associate of Arts Degree including:
   a. the general education requirements
   b. the one year Accounting and Economics sequence
   c. College Algebra.

4. 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 course areas in the College of Business Administration and cannot be satisfied with community/junior college courses.

5. A minimum of 12 semester hours must be completed at UCF within each individual major.

Recent legislation has mandated changes in program admission prerequisites, program length, and course levels. This document may not include the final versions of these changes. See your college advisor for current information.

ADVISEMENT

OFFICE OF STUDENT SUPPORT (OSS)

Director: Ms. Helen Y. Hill, BA 240, Phone (407) 823-2184
The Office of Student Support is the primary office for undergraduate and graduate academic assistance in the College of
Over the hospitality master's degrees in accounting and taxation. These programs focus on the real-world challenges of accounting, emphasizing Certified Internal Auditor. The knowledge as a foundation for accounting career development. The undergraduate degree also is the first step toward becoming a CPA.

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, MAAE, MST)

DEPARTMENT OF ECONOMICS
Chair: R. Hofler, BA 325, Phone (407) 823-3266
Faculty: Agarwal, Braun, Co, Day, Elston, Euzent, Gallet, Gibbs, Hofler, D. Hosni, J. Lee, List, T. Martin, McFone, B. Moore, Pennington, Rungeling, B. Sen, Soskin, Tomlin, White, Xander
Faculty Advisor: D. Hosni, BA 321, Phone (407) 823-2069
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
- Teaching quality - Over one-half of the department's faculty have received awards for teaching excellence. These faculty teach most of the economics major classes.
- Scholarships - several $500 scholarships are available.
- Flexible curriculum - economics electives allow students to tailor the program to meet their individual needs.
- Student organizations - Two active student organizations, Omicron Delta Epsilon and The Economics Club, host speakers, scholarships are available.
- A competitive internship program that places graduate students in positions with major employers in the community.
- 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, MAAE, MST)

MINORS: Economics

DEPARTMENT OF FINANCE
Chair: J. M. Cheney, BA 420, Phone (407) 823-3575
Faculty: Ajayi, Atkinson, Borde, Byrd, Cheney, Choi, Gilkeson, Greene, Michelson, Millican, Modani, Park, Porter, Ramanlal, Scott, S. Smith, 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)

**Minors:** International Business

**GENERAL BUSINESS**

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.

**DEPARTMENT OF HOSPITALITY MANAGEMENT**

**Chair:** R. Ford, BA 409, Phone (407) 823-2188

**Faculty:** Ashley, Ellis, Ford, LeBruto, Milman, Pizam, 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 Department 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, or conventions and destination services management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 13 million tourists each year, has over 400 hotels with 80,000 rooms, 1400 restaurants, and 30 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 leaders of this industry have helped design a program of study for the major that prepares both experienced employees and newly entering students to successfully compete for employment in the industry at the local and national levels. The educational mission of the department is to provide our students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, to apply creative decision techniques in responding to those opportunities, and to lead the industry into the next century.

The major is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and "hands-on" 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 the 800 hour cooperative education requirement and through extensive contact with leading hospitality managers in the Central Florida area.

The department also houses 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 can help the entire Orlando area hospitality industry better understand and serve its many visitors and guests from around the world.

**DISTINCTIVE BENEFITS**

- Cooperation with and access to the many hospitality organizations which serve one of the premier tourist destinations in the world.
- Strong and extensive ties with the top leadership of the Orlando area hospitality industry, representing world-renowned organizations.
- 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 continuously improving their ability to teach that knowledge to their students.
- A required work experience that provides students with "hands-on" experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A state-of-the-art computer laboratory dedicated to the hospitality student and made possible through the contributions of the hospitality industry.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with actual experience in food preparation.

**Degrees:** Hospitality Management (BSBA)

**Minors:** Hospitality Management

**DEPARTMENT OF MANAGEMENT**

**Chair:** H. Jones, BA 335, Phone (407) 823-2679

**Faculty:** Arnaud, Barringer, Becker, Bogumil, Callarman, Connelly, Fernald, C. Ford, Goodman, Gowen, Harrison, Huseman, F. Jones, H. Jones, Leigh, Neubaum, Odisho, Pullin, Purvis, Patchinski, Rainer, Spicer, D. Stone, Uhl-Bien, West

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 challenge of management in the business environment of the 21st century.

To learn about management, students study the processes and techniques of leadership, planning, controlling and staffing of both small and large organizations. Courses are designed to demonstrate the impact of technological factors, the framework for decision-making and human behavior, and the management of human resources on the overall effectiveness of the organization.

The Management major is designed in that students can choose to concentrate their course work in specialized areas of study, for instance, Human Resource Management, Quality and Productivity Management, and Management Information Systems. Further, students can choose an option in the area of General Management which allows them to take a broader variety of course work and prepares them for general management responsibilities.

The study of Management Information Systems involves learning how information technology can improve organizational effectiveness and efficiency. Courses are designed to give students hands-on skills in designing and developing relational databases, client/server systems, graphical user interfaces, queries and reports, and in project management.

**DISTINCTIVE BENEFITS**

- The ability to specialize in a career field: Human Resources, Information Systems, Quality and Productivity, General Management.
- Excellent faculty who are known for their creativity and enthusiasm for teaching.
- Active student organizations including: SHRM (Society for Human Resource Management), MISA (Management Information Systems), APICS (American Production and
Inventory Control Society), and the Entrepreneurship club.

- Internships throughout the Central Florida region.

**Degrees:** Management (BSBA)

**Tracks:** Human Resources, Management Information Systems, Productions/Operations Management, General Management

**Minors:** Management Information Systems

**DEPARTMENT OF MARKETING**

**Chair:** R. Michaels, BA 317, Phone (407) 823-2108

**Faculty:** Allen, Arnold, Das, Davis, Eschambadi, Fuller, Ganesh, Gillett, Luckett, Michaels, Paul, Pimentel, Quaintance, Reynolds, Rubin, White

The department's curriculum, titled *Impact Marketing 2000*, provides students the opportunity to study marketing in a logical, sequential, and integrated manner. Students are provided the basic structure of the marketing system and environment in MAR 3023. In four additional courses students build competencies, skills, and knowledge in such areas as information acquisition, analysis, communications, customer behavior, and marketing research. Those four courses are precursors to two capstone courses in which students apply problem-solving and decision-making skills within the context of marketing programs and strategies. Recurrent themes throughout the curriculum are teamwork, communication, creativity, driving change, quantitative analysis, problem-solving/decision-making and global orientation.

Marketing has become a significant philosophy of doing business. The fact that a marketing orientation is a feature of most growing, dynamic companies is a real advantage to the graduate who enters the marketing arena. The training period may involve the graduate in a number of critical marketing areas such as sales, advertising, public relations and research.

The marketing profession can provide a direct route to upper management. The most successful graduate will be the one who develops competence in a number of marketing functions, such as research, quantitative analysis, sales and advertising, and at the same time, has obtained strong skills in strategic marketing management.

**DISTINCTIVE BENEFITS**

- Strong emphasis on undergraduate instruction.
- Opportunity for internships, independent projects and directed studies
- Senior professors teach the majority of undergraduate classes.
- Strong emphasis on preparing students for marketing management careers.
- Opportunity to participate in a national award-winning student chapter of Pi Sigma Epsilon.

**Degrees:** Marketing (BSBA)
Admission to the College of Education

Dean: Sandra L. Robinson, ED328, Phone (407) 823-5529
Associate Dean: Michael C. Hynes, ED146, Phone (407) 823-6076
Associate Dean: Jennifer C. Platt, ED328, Phone (407) 823-2046
Assistant Dean: Margaret G. Miller, ED115, Phone (407) 823-2436
Assistant Dean: TBA, ED 328, (407) 823-2835

The role of the College of Education at the undergraduate level is to prepare students for careers as elementary, secondary, exceptional, physical, and vocational education teachers. The program of studies includes three components: general education, a subject matter specialization, and a teacher education component that addresses the professional knowledge and practical experience future teachers need in order to successfully teach children and youth in public and private school settings.

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
- Vocational Education and Industry Training

Office of Student Services

The College of Education Student Services Office assists students with orientation, registration, academic advisement for Education Pending students, college and university academic requirements and graduation certification. Students are assigned a faculty advisor upon meeting College of Education admission requirements. Information regarding majors offered by the College of Education can be obtained in ED109.

Admission to the University of Central Florida does not imply admission to the College of Education. Students will be allowed to enroll only in the 3000/4000 level courses taught by the College of Education after they have been admitted to the College. Students admitted to the College of Education will need to meet additional requirements in order to be fully admitted to Teacher Education.

Admission to the College of Education

Admission to the College will be granted when students meet the following requirements:
- complete the University General Education program 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 a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced) and a 2.5 overall GPA
- complete 3 parts of the CLAST examination (no alternatives are accepted) 4 parts must be completed for Early Childhood Education
- complete prerequisite courses

Non-Degree Program (Initial Certification Only)

All students who have earned a Baccalaureate degree from an accredited institution and who wish to be certified in elementary education must complete an undergraduate or master’s 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.

Teacher Education Curriculum

The professional teacher education curriculum is designed to provide students the opportunity to develop the professionalism required for entry into the profession of teaching. Particular attention is given in the curriculum to the following:
- knowledge and understanding of the growth and development of children and youth
- knowledge and understanding of how children and youth learn
- knowledge and understanding of the role and function of schools and teachers in a free society to design educational teaching objectives
- ability to plan and implement effective teaching strategies
- ability to work with culturally diverse populations

Common Body of Professional Knowledge

Department of Educational Foundations, ED243, (Phone (407) 823-2427)

The following course work provides the foundation of professional knowledge and understanding and is required of all majors:
- EDG 4323 Professional Teaching Practices 3 hrs
- EDF 4603 Analysis of Critical Issues in Ed 3 hrs
- EDF 4214 Classroom Learning Principles 3 hrs

STUDENT TEACHING

Assistant Dean: M. Miller, ED115, Phone (407) 823-2436
Coordinators: R. Martin, B. Siebert

The clinical experience components of the professional program include early and continuous field experiences which provide students opportunities to develop skills and instructional competence. The clinical experience program provides students a broad range of instructional experiences in various school settings which are developed through cooperative planning with local school administrators and teachers.

Clinical experience is an integral part of every degree program and consists of two major components. Placement of students is the responsibility of the College of Education. Students are placed in public schools that have been approved as Student Teaching Centers. However, students are not guaranteed a placement. Schools have the right to deny acceptance of a student in their school.

Admission to Teacher Education

Admission to Teacher Education will be granted when students who have been admitted to the College of Education meet the following requirements:
- 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
- achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- submit a satisfactory portfolio
- be recommended by the faculty of the department of the student’s major
- meet any special departmental requirements
- must have a grade of "C" or better in each methods course

Internship I is a six semester hour credit experience. Students are assigned to work with certified supervising teachers under the direction of a College faculty coordinator. The program provides the student experiences at different grade levels and classroom settings for purpose of developing specific instructional skills and knowledge and understanding of schooling. Students are enrolled in a limited
and coordinates the core courses for the Curriculum and Instruction doctoral program. Educational Foundations graduate courses provide opportunities for students to advance their knowledge and application skills related to research methods, data analysis, educational measurement, social, multicultural and psychological factors, curriculum and instructional theories, and the historical and philosophical factors that influence education.

DEPARTMENT OF EDUCATIONAL SERVICES
Chair: TBA, ED318, Phone (407) 823-2596
Faculty: Balada, Baumbach, Bollet, Bozeman, Cornell, Creamer, G. Gunter, R. Gunter, Hernandez, Johnson, Jones, Lee, Lynn, Mealor, Middleton, B. Murray, K. Murray, Orwig, Pawlas, Robinson, Rothberg, Shephard-Tew, Tubbs

The focus of the Department of Educational Services is to provide training for specialists in school and non-school environments. Certification programs and masters level (M.A. or M.Ed.) graduate programs are available in Counselor Education, Educational Leadership, and Instructional Technology/Media. The Educational Specialist (Ed.S.) is offered in Educational Leadership and School Psychology. The Doctor of Education (Ed.D.) degree is offered in Educational Leadership. Other doctoral options are available through the Curriculum & Instruction Program.

The Educational Services Department is composed of graduate programs which are listed in the graduate catalog.

DEPARTMENT OF EXCEPTIONAL AND PHYSICAL EDUCATION
Chair: TBA, ED214, Phone (407) 823-2401
Faculty: Blanes, Clark, Cross, Eckell, Gergely, Higginton, Kazoroski, Klein, Little, Lue, Martin, Miller, Mitchell, Olson, Pankaskie, Platt, Powell, Renner, Rohrer, Smalley, Woodson

Undergraduate academic major programs leading to bachelor’s degrees and certification are offered in Exceptional Education and Physical Education. The Exceptional Education program includes specialties in; (a) emotionally handicapped; (b) mentally handicapped and (c) specific learning disabilities at the K-12 levels. The Physical Education program is a K-8 specialization. In addition, secondary certification and coaching certification programs are available. Students are responsible for completion of program requirements and are encouraged to review their programs with an assigned advisor.

DEPARTMENT OF INSTRUCTIONAL PROGRAMS
Chair: TBA, ED346, Phone (407) 823-2939
Faculty: Allen, Armstrong, Atkins, Bailey, Beasley, Blair, Brewer, Brumbaugh, Buchoff, Camp, Clifford, Crawford, Cornett, Everett, Gard, Gruber, Gurney, Hopkins, Hudson, Hynes, Joels, Johnson, Johnston, Martin, Morris, Ortiz, Palmer, Paugh, Romjue, Scott-Kassner, Siebert, Smith, Snell, Sorg, Sweeney, Thompson, Williams

Early Childhood Education
Students who major in Early Childhood Education are qualified to teach Pre-kindergarten through grade 3 upon graduation and receipt of a Florida Teaching Certificate.

In addition to the College of Education and other department requirements, an early childhood education student should: (1) have a grade of “C” or better in each specialization course and (2) must have taken all methods courses and earned a grade of “C” or better before enrolling in Student Teaching.

Elementary Education
The career Elementary Education program is planned for students interested in the education of children, six through twelve years of age. Students who major in elementary education are qualified to
teach grades one through six upon graduation and receipt of a Florida teaching certificate.

An elementary education major must have the following preparation: (1) a broad general education; (2) a specialized knowledge of content, techniques, and materials needed to teach different elementary school subjects such as art, language arts, reading, mathematics, music, physical education, science and social studies; and (3) professional study which includes planned laboratory activities with children in schools identified as Teacher Education Centers. In addition to the College of Education and other department requirements, an elementary education student enrolling in Internship II must have a grade of “C” or better in each specialization course and must have taken all methods courses before taking Internship II.

Secondary Education

Career programs are available for prospective teachers who have an interest in working with adolescent students in a specific academic area at the middle, junior, or high school levels. Specialization is available in Art, Biology, Chemistry, English, Foreign Language, Mathematics, Physics, and Social Science.

Vocational Education and Training Development

The vocational education degree is for individuals in Business/Office Occupations, Industrial/Technical areas or selected Health Occupations who wish to be teachers in secondary or post-secondary schools (or trainers in business, industry, or health care facilities). Through course examination, or licensure in an occupational specialization a student may receive a maximum of 30 semester hours of credit toward the degree. This degree also includes initial courses required for Florida Vocational Teacher Certification in selected areas.

*This catalog represents a significant change in program requirements from previous years. Students under earlier catalogs should carefully review all degree requirements before changing to this catalog.
COLLEGE OF ENGINEERING

Dean: M.P. Wanielista, ENGR 107, Phone 823-2156
Associate Dean: D.R. Reinhart, ENGR 107, Phone 823-2156
Associate Dean: R.N. Miller, ENGR 281, Phone 823-2455
Director of Graduate Affairs: J.A. Sepulveda, ENGR 281, Phone 823-2455
Director of Undergraduate Affairs: T.B.A, ENGR 281, Phone 823-2455
Director of College Honors Programs: A. J. Gonzalez, ENGR 407, Phone 823-5027

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 or engineering technology. The internationally-recognized faculty of the College of Engineering, 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 and engineering technologist 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, engineers and engineering technologists also consider environmental, sociological, and other humanistic costs. The engineering or engineering technology degree is also recognized as a valuable asset to those entering other professional pursuits such as the medical or law professions, architecture, the military professions, or even politics.

COLLEGE ORGANIZATION

The College of Engineering is organized into three major divisions: the Engineering Division, the Engineering Technology Division, and the Reserve Officer Training Corps (ROTC) Division. The Engineering Division is divided into four departments: the Civil and Environmental Engineering (CEE) Department, the Electrical and Computer Engineering (ECE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. 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).

Seven engineering programs are offered within the four Engineering Division departments. The Bachelor of Science in Civil Engineering (BSCE) and Bachelor of Science in Environmental Engineering (BSEnvE) programs are offered by the CEE Department, and the Bachelor of Science in Computer Engineering (BSCpE) and Bachelor of Science in Electrical Engineering (BSEE) programs are offered by the ECE Department. The Bachelor of Science in Industrial Engineering (BSIE) program is offered by the IEMS Department, and the Bachelor of Science in Aerospace Engineering (BSAE) and Bachelor of Science in Mechanical Engineering (BSME) programs are offered by the MMAE Department. In addition, there are several options or concentrations that are available within each program. All departments in the Engineering Division also offer advanced studies leading to master's degrees and the Doctor of Philosophy degree; see the Graduate catalog for further information on these engineering graduate programs. All undergraduate engineering programs are fully accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). The Engineering Technology Division and Department offers baccalaureate concentrations in Design and in Operations, both leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems and in Information Systems, both leading to the Bachelor of Science in Electrical Engineering Technology (BSEET) degree. Both the BSET and BSSEET programs are accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET). The College houses the ROTC Division for those students wishing 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 PROGRAMS IN THE COLLEGE OF ENGINEERING

In this increasingly technical society, engineers and engineering technologists can no longer allow critical decisions to be made without due consideration of technical issues. Therefore, the 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 offers outstanding undergraduate engineering and engineering technology majors an enriched educational, technical, professional and cultural experience that significantly augments the basic Engineering curriculum. 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 course work and participation in research projects. In addition, the program exposes students to a wide variety of issues dealing with the role of engineers 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 engineering students: 1) the University Honors Program and 2) the Honors in the Major Program.

The University Honors Program

The University Honors Program is designed around the concept of academic excellence. Its purpose is to enhance and broaden the education of the most able undergraduate students attending UCF. This program includes intensified course work within the General Education Program, as well as interdisciplinary seminars, lectures and activities beyond the classroom. All Honors course work is undertaken in small classes (with a 17-to-1 student/faculty ratio) where close student/faculty interaction is essential. Please consult the University Honors Program Handbook or the section on the University Honors Program found elsewhere in this catalog for admission and program requirements.

The Honors in the Major Program

The College of Engineering 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 students who wish 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 6 semester hours of work. These credit hours may be acceptable as technical electives by the student’s home department or program. However, such acceptance is the
prerogative of that department faculty. These six credit hours consist of an Honors in the Major Seminar (3 semester hours), plus three semester hours of Undergraduate Directed Independent Research. 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 of college credit, including at least 12 semester hours at UCF.
2. An overall GPA of at least 3.500.
3. 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 remain in the program Honors students are expected to maintain a minimum 3.000 GPA in Core and Option courses. Successful candidates will be awarded an Honors in Engineering/Engineering Technology mention in 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 in Engineering/Engineering Technology Program must be made to the College of Engineering Honors Director, Dr. Avelino Gonzalez, Room ENGR 411, Engineering Building.

THE LEAD SCHOLARS PROGRAM IN THE COLLEGE OF ENGINEERING

Engineering and engineering technology 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). This program is a comprehensive student development program for talented first year college students with experience and interest in leadership, scholarship and service. It focuses on integrating LEAD Scholars with faculty in the five colleges of Arts & Sciences, Business Administration, Education, Engineering, and Health and Public Affairs. Engineering and engineering technology LEAD Scholars join a unique partnership with College of Engineering faculty and staff as a way to make immediate identification with academic life.

THE ENGINEERING PROGRAMS

Engineering is that profession in which knowledge of the mathematics and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind. A significant measure of an engineering education is the degree to which it has prepared the graduate to pursue a productive engineering career that is characterized by continued professional growth.

The curriculum of each UCF engineering program provides an integrated educational experience directed toward developing in each graduate the ability to apply pertinent knowledge to the identification and solution of practical problems in designated areas of engineering specialization. The curriculum of each engineering program is designed to provide a sequential development of analytical and experimental studies, combined with pervasive engineering design experiences, that lead to capstone senior design courses. Specific areas in these curricula include mathematics and basic sciences, humanities and social sciences and carefully selected engineering science and design topics.

Engineering design is the process of devising a system, component, or process to meet desired needs. A fundamental goal of the curriculum of each UCF engineering program is to develop in each engineering student the ability to work productively as a member of a team organized to design a feasible, economical engineering solution to meet a perceived need of society. Engineering design is a decision-making process, often iterative, in which the basic sciences and mathematics and engineering sciences are applied to optimally convert resources to meet a stated need. Among the fundamental elements of the UCF engineering design process are the establishment of objectives and criteria, synthesis, analysis, construction, testing, and evaluation. The UCF engineering design component includes the following features: development of student creativity, use of problems for which there are many satisfactory solutions, development and use of modern design theory and methodology, formulation of design problem statements and specifications, consideration of alternate solutions, feasibility considerations, concurrent engineering design, and detailed system descriptions. Further included in the UCF engineering design process is the consideration of a variety of realistic constraints, such as economic factors, safety, reliability, aesthetics, ethics, and social impact. The scope of the design experience within each major matches the requirements of practice within that discipline. Design cannot be taught in one course; it is an experience that must grow with the student's development.

The curriculum of each UCF engineering major includes a meaningful, major engineering design experience that builds upon the fundamental concepts of mathematics, basic sciences, the humanities and social sciences, engineering topics, and communication skills. A meaningful, major design experience means that, at some point when the student's academic development is complete, there is a design experience that both focuses the student's attention on professional practice and is drawn from past course work. Inevitably this means a course, or a project, or a thesis that focuses upon design. Meaningful implies that the design experience is significant within the student's major and that it draws upon analysis and design concepts taught in previous courses. Each major design experience is taught in small sections to allow interaction between each student and the faculty members assigned to direct and evaluate the experience, although team effort is emphasized in each experience.

Appropriate laboratory experiences which serve to combine elements of theory and practice is an integral component of every UCF engineering program. Every student in each program develops a competence to conduct experimental work such as that expected of engineers in the discipline represented by the program. Each student has "hands-on" laboratory experiences, particularly at the upper levels of the program. Instruction in safety procedures is an integral component of students' laboratory experiences.

Appropriate computer-based experience is also included in the program of each engineering student. Students must demonstrate knowledge of the application and use of digital computation techniques for specific engineering problems. The problems include, for example, the use of computers for technical calculations, problem solving, data acquisition and processing, process control, computer-assisted design, computer graphics, and other functions and applications appropriate to the particular engineering discipline. Access to computational facilities is sufficient to permit students and faculty to integrate computer work into course work whenever appropriate throughout the academic program.

An understanding of the ethical, social, economic, and safety considerations in engineering practice is essential for a successful engineering career. Course work is provided for this purpose, and the engineering faculty infuse professional concepts into all engineering course work.
Engineering Program Objectives

The overall UCF Engineering Curriculum provides an integrated educational experience directed toward the development of the ability to apply pertinent knowledge to the identification and solution of practical problems in the designated area if engineering specialization. This curriculum is designed to provide a sequential development leading to advanced work and includes both analytical and experimental studies. Specific areas in this curriculum design include mathematics and basic sciences, humanities and social sciences and carefully selected engineering topics, which include subjects in the engineering sciences and engineering design.

The engineering sciences have their roots in mathematics and basic sciences, but carry knowledge further toward creative application. These studies provide a bridge between mathematics and basic sciences on the one hand and engineering practice on the other.

The College of Engineering seeks to produce well-qualified graduates in specifically selected engineering disciplines, conduct research efforts of significance to the state and to the nation, and to provide technical services and expertise to the local community. In keeping with the national aspiration of maintaining excellence in science and engineering, the primary objectives of the undergraduate programs are to develop in each engineering baccalaureate graduate:

1. a capability to delineate and solve in a practical way the problems of society that are susceptible to engineering treatment;
2. a sensitivity to the socially-related technical problems which confront the profession;
3. an understanding of the ethical characteristics of the engineering profession and practice;
4. an understanding of the engineer’s responsibility to protect both occupations and public health and safety, and
5. an ability to maintain professional competence through life-long learning.

These objectives are met in the UCF College of Engineering by a curriculum in which there is a progression in the course work, and in which fundamental scientific and other training of the earlier years is applied in later engineering courses.

Undergraduate Engineering Program Curricula

The first-year curriculum is nearly common for all undergraduates in that the initial areas of study will concentrate on the basic sciences and mathematics. The General Education Program (see Undergraduate Degree Requirements) is also begun during the first year and, ideally, will be integrated continuously into the entire undergraduate experience. Entering students receive assistance in planning their program and typically will undergo an orientation to the University and the College. It is not necessary for entering engineering students to select a specific major immediately, but, to avoid taking excess hours and to facilitate a rapid transition into a degree program and into the College of Engineering, students are encouraged to make that choice as early as possible. The College of Engineering graduation requirements include the satisfactory completion of 128 semester hours of specified courses (for specifics, see the sections on each engineering program elsewhere in this catalog). Engineering students must earn a minimum GPA of 2.25 in the group of courses listed in the section "Courses Required for Major" together with the senior design courses listed in the section "Departmental Graduation Requirements."

It is possible for an engineering student to earn two degrees concurrently in two majors, e.g. aerospace and mechanical engineering. University policy requires a minimum of 30 additional residency hours for the double major; however, the interested student should consult with the advisors of the two programs for the pertinent college and/or departmental requirements. Students interested in pursuing a double major should also consider the alternative of pursuing a single baccalaureate degree followed by graduate degree, as in most cases fewer credits are involved than in the double major.

In addition to satisfying the minimum University requirements, students entering any of the engineering programs should be adequately prepared at the secondary school (or higher) level in the following basic disciplines:

- mathematics at least through trigonometry
- physics
- chemistry
- biology
- introduction to computers; computer programming (prefer "C")

These requirements should not be ignored; those students lacking these credits may be required to complete additional course work which is not applied toward the degree and may generate excess credit hours.

Transferring Engineering Students

Students having a non-engineering degree, or those holding a two-year degree from a community college may apply for admission to the College of Engineering through the University Admissions Office. Those applicants having the Associate of Arts degree from a Florida community college are essentially guaranteed admission; there are no additional criteria or entrance restrictions for the College. The Florida common-course-numbering system ensures that those courses being transferred into the student's program can be readily evaluated for concurrence with required courses. Petitioning for those courses under question, or those from other university systems, will be accomplished through the College Academic Affairs Office. It should be noted that students may complete all of their requirements in the General Education Program, as well as the requirements for mathematics and the basic sciences, at most of Florida's Community Colleges. Those students entering from the community colleges may use the catalog year associated with their entry into that earlier program, assuming they have maintained continuous enrollment; see the section on Undergraduate Degree Requirements found elsewhere in this catalog. It is also possible to take some lower-division courses concurrently at the University and the community college using the Transient Student form available from the College Academic Affairs Office. This option is not available during the last 30 hours of study.

Transfer students must also be aware that: 1) at least 25 percent of their program credit hours must be done in residency, and 2) if they should enter with less than 60 semester hours of credit, they must enroll for at least 9 hours, on campus, during any summer session.

The Engineering Intern (EI) Examination

The EI examination is a state-administered, nationally-sponsored test that represents a defined standard of technical competency and serves as an initial step toward registration as a Professional Engineer. Students in the Civil, Environmental, and Industrial Engineering Programs are required to take the examination in their senior year. Students in the other engineering programs are strongly encouraged to sit for the EI exam during their senior year also, since the engineering curricula provide fine preparation for this exam. The examination is conducted in the months of April and October, with applications due no less than six months prior to the examination date. Applications are available in the College Academic Affairs Office. Inquiries concerning the exam should be directed to the Florida Board of Professional Engineers, Phone: (904) 488-9912.

Engineering Student Activities

Each UCF engineering major has a technical society open to all students enrolled in the major; in most cases, they are student chapters of nationally recognized professional engineering organizations. The students who maintain membership in these
societies may meet with the senior industrial members at regularly scheduled meetings and are rewarded, both socially and educationally, by such contacts. In addition, many of these groups are involved in inter-university design/presentation/model competitions that can further enhance the total university experience.

Additional Information on UCF Baccalaureate Engineering Programs

Information on each UCF engineering program follows, and more updating information can be found on the College home page at http://www.engr.ucf.edu, on the College Academic Affairs home page at http://pegasus.cc.ucf.edu/~aacd/, and on the home pages of each engineering department. For the home page associated with a particular engineering program, see the listing for that department on the following pages of this catalog.

COLLEGE OF ENGINEERING DEPARTMENTS

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Chair: A. E. Radwan, ENGR 207, Phone (407) 823-2841, Fax (407) 823-3315

Faculty: Abdel-Aty, Al–Deek, Block, Chopra, Cooper, Dietz, El–Tawil, Hagen, Hartman, Head, Hong, Kunnath, Kuo, Mirmiran, Nnadi, Onyemelukwe, Randall, Reinhart, J. Taylor, Wanielista, Wason

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSCE) and Environmental Engineering (BSEnE).

The Civil Engineering Program

The Civil Engineering major is concerned primarily with fundamental civil engineering design and analysis in such areas as structures, geotechnical engineering, sanitary engineering, water resources, and transportation engineering. Civil Engineering students are required to take a minimum of two Project Design Courses (out of 6 offered), which synthesize various pre-requisite course offerings into a design project. These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The prerequisites needed for the various project courses vary.

For example, course work in Engineering Fluid Mechanics (CWR 3201), Hydraulics (CWR 4203C), and Hydrology (CWR 4101C) forms the basis for Water Resources Design (CWR 4812C) in which students work on water, stormwater, and sewer transmission system design. Course work in Engineering and the Environment (EN 3704) and Environmental Engineering Process Design (ENV 4561) prepares the student for the water and wastewater treatment projects in Environmental Engineering System Design (ENV 4562C).

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 4 offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

For example, course work in Engineering Fluid Mechanics (CWR 3201) and Air Pollution (ENV 4121C) prepares students for the design of air pollution control equipment in Air Pollution Control Design (ENV 4122C). More information on the Civil and Environmental Engineering programs can be found on the CEE Department home page at http://www-cee.engr.ucf.edu.

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Chair: W. B. Mikhael, EN 407, Phone (407) 823-2786, Fax (407) 823-5835

Faculty: Batarseh, Bauer, Belkerdiz, Boreman, Christodoulou, Delfyett, DeMarra, Georgiopoulos, A. Gonzalez, F. Gonzalez, Haralambous, Harvey, Jones, Kasparis, Klee, Li Kam Wa, Linton, Linu, Malocha, R. Miller, Maharam, Martazawi, Myler, Petrasok, Phillips, Qu, Richie, N. Riza, J. Rolland, Shu, Soileau, Stickley, Sundaram, Tsannes, Wahid, Weeks, Wu, Yuan, Zalewski

The Electrical and Computer Engineering Department (ECE) offers baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BSE CpE).

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), Electrical Engineering Applications of Computer Methods (EEL 4832), Engineering Data Structures (EEL 4851C), and Introduction to Digital Circuits and Systems (EEE 3342C). Technical electives can give additional design experiences in specialty areas such as computer architecture, intelligent systems, networking, and software engineering.
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.

More information on the Computer and Electrical Engineering programs can be found on the ECE Department home page at http://www-ece.engr.ucf.edu/.

DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT SYSTEMS
Chair: Charles H. Reilly, EN 307, Phone (407) 823-2204, Fax (407) 823-3413
Faculty: Armacost, Elshennawy, Hoekstra, Hosni, Katnour, Lee, Malone, McCauley-Bell, Mellaghaseemi, Mullens, Pet-Edwards, Proctor, Ragusa, Sepulveda, Stanney, Thompson, Whitehouse

Industrial Engineers make things work better. They design systems which 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 right mix and type 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.

Elementary 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 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.

More information on the Industrial Engineering program can be found on the Industrial Engineering Department home page at http://ie.engr.ucf.edu/.

DEPARTMENT OF MECHANICAL, MATERIALS, AND AEROSPACE ENGINEERING
Chair: Louis C. Chow, EN 381, Phone (407) 823-2416 Fax (407) 823-0208
Faculty: Bishop, Chen, Chew, Desai, Enao, Giannuzzi, Hagedoorn, Hosler, R. Johnson, Kapat, Kar, Kassab, K. Lin, McBrayer, Minardi, Masley, Nayfah, Nicholson, Nuckolls, Seal, W. Smith, Ventre, Zhou

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/FE, 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 computer graphics course 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 course. The use of computers and written and oral communication are part of the design experiences throughout the programs.

More information on the Aerospace and Mechanical Engineering programs can be found on the MMAE Department home page at http://www-mmae.engr.ucf.edu/.

DEPARTMENT OF ENGINEERING TECHNOLOGY
The Engineering Technology Department (ENT) is located on the 4th floor of the Pavilion Building in the Central Florida Research Park approximately 0.7 mile (1.1 km) due South of the main campus. LASER shuttle bus service runs between the main campus and the Pavilion Building.

Chair: R. Demning, RP 491, Phone (407) 384-2161, Fax (407) 384-2157
Assistant Chair: A. Rahrooh, BLCC 277, Phone (407) 631-5366 (Brevard Campus)
Assistant Chair: R. Coowar, RP 478, Phone (407) 384-2151
Faculty: Coowar, Misconi, Morse, Motlagh, Osborne, Rahrooh, Rogers, Walsh

More information on the Engineering Technology programs can be found on the ENT Department home page at http://www-ent.engr.ucf.edu.

Requirements
Completion of UCF's General Education is required before the BSEET/BSET degree is granted. If a student completes the General Education Program of a Florida public college or university, it will substitute directly for UCF's Lower Division General Education Program. Students should consult an advisor for specific course requirements. All Engineering Technology students must earn a minimum of 32 hours in residence at UCF, 48 hours of upper division credit, and 60 hours of senior institution credit (see the Requirements for Graduation section elsewhere in this catalog).

Bachelor of Science in Electrical Engineering Technology (BSEET)
Program Coordinator: Rosida Coowar.

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 Information 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 cooperation with local industry, solving real-world problems are required of all students in this concentration.

Bachelor of Science in Engineering Technology (BSET) Program Coordinator: James Walsh, P.E.

The BSET curriculum consists of a carefully integrated program which includes professional studies, liberal 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.

Projects in cooperation with local industry, 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.

THE ENGINEERING TECHNOLOGY PROGRAMS

Engineering Technology is a part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the craftsman and the engineer at the end of the spectrum closest to the engineer. Graduates of engineering technology baccalaureate programs are called engineering technologists.

Engineering Technology is the profession in which a knowledge of the applied mathematical and natural sciences gained by higher education, experience, and practice is devoted to application of engineering principles and the implementation of technological advances for the benefit of humanity. Engineering Technology education at UCF is broad in nature, focusing primarily on analyzing, applying, implementing and improving existing technologies. This education enhances the graduate's potential for accepting a wide variety of professional opportunities, for lifelong learning, and for future career advancement.

Two baccalaureate degree programs are offered in engineering technology. They are the: Bachelor of Science in Electrical Engineering Technology (BSEET) and Bachelor of Science in Engineering Technology (BSET).

Engineering Technology Program Objectives

The bachelor of science degree programs in Electrical Engineering Technology and in Engineering Technology are aimed at preparing graduates for the practice of engineering closest to the product improvement, manufacturing, and engineering operational functions.

Engineering Technology Program Curricula

Students entering either of the curricula in Engineering Technology should be aware that some lower level technical courses may not currently be available at UCF and that the student may need to take a limited number of courses at a community college. Students who wish to be admitted directly into the upper level engineering technology concentration should possess either the AA degree, with appropriate technical courses, or an AS (or equivalent education) degree from a Florida public college or university, or approved course work in an appropriate engineering technology area at an out-of-state institution. Prospective transfer students not holding the AA/AS degree from a Florida public college are encouraged to apply.

Completion of UCF's General Education is required before the BSEET/BSET degree is granted. If a student completes the General Education Program of a Florida public college or university, it will substitute directly for UCF's Lower Division General Education Program. Students should consult an advisor for specific course requirements. All Engineering Technology students must earn a minimum of 32 hours in residence at UCF, 48 hours of upper division credit, and 60 hours of senior institution credit (see the Requirements for Graduation section elsewhere in this catalog).

Transferring Engineering Technology Students

Students having a non-engineering degree, or those holding a two-year degree from a community college may apply for admission to an Engineering Technology program through the University Admissions Office. Those applicants having the Associate of Arts degree from a Florida community college are essentially guaranteed admission; there are no additional criteria or entrance restrictions for the College. The Florida common-course-numbering system ensures that those courses being transferred into the student's engineering technology program can be readily evaluated for concurrence with required courses. Petitioning for those courses under question, or those from other university systems, will be accomplished through the Engineering Technology Department. It should be noted that students may complete all of their requirements in the General Education Program, as well as the requirements for mathematics, the basic sciences and many of their required technical courses, at many of Florida's Community Colleges. Those students entering from the community colleges may use the catalog year associated with their entry into that earlier program, assuming they have maintained continuous enrollment; see the section on Undergraduate Degree Requirements found elsewhere in this catalog. It is also possible to take some lower-division courses concurrently at the University and the community college using the Transient Student form available from the College Academic Affairs Office. This option is not available during the last 30 hours of study.

Engineering technology students frequently transfer to UCF with credits from several other colleges and/or universities. To avoid problems at graduation time, students should monitor their progress not only through required course work, but also toward satisfying the UCF graduation requirements. Engineering technology students should review their progress at least once per semester with their academic advisor, paying particular attention toward satisfying the following minimum requirements. Also see the section, Requirements for Graduation, elsewhere in this catalog.
The Department of Aerospace Studies provides pre-commissioning education through the Air Force freshman through senior years. The two year programs allow CURRICULUM academic years remaining in either undergraduate or graduate status four/three-year program provides on-campus study during the freshman and sophomore years. The courses deal with the mission, discretion whether or not any applicant is qualified for development of air power into a prime element of American national exposure to the Reserve AIR FORCE ROTC (Aerospace Studies) studies in these societies may meet with the senior industrial members at regularly scheduled meetings and are rewarded, both socially and educationally, by such contacts. In addition, many of these groups are involved in inter-university design/presentation/model competitions that can further enhance the total university experience. Additional Information on UCF Baccalaureate Engineering Technology Programs Information on each UCF engineering technology program follows, and more updating information can be found on the College home page at http://www.engr.ucf.edu/, on the College Academic Affairs home page at http://pegasus.cc.ucf.edu/~acad/, and on the home page of the Engineering Technology Department at http://www-ent.engr.ucf.edu.

RESERVE OFFICER TRAINING CORPS

AIR FORCE ROTC (Aerospace Studies)

Chair: LtCol Lee Glaser, Trailer 501, Room 103, Phone (407) 823-1247, FAX (407) 823-2265
Faculty/Staff: Major Mitchell, Captain Fiedler, Captain Zeitz, MSgt Hernandez, SSgt Garcia, 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 both four-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. Both 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://pegasus.cc.ucf.edu/~airrotc/

CURRICULUM

Students enrolled in the Air Force ROTC program may major in any academic discipline and earn a minor in Aerospace Studies. A major is not offered by this department. AFROTC courses are listed under the prefix AFR. The curriculum is divided into two phases:

1. General Military Course (GMC)

   The General Military Course is designed to give students their first exposure to the Reserve Officer Training Corps program during their freshman and sophomore years. The courses deal with the mission, organization, and structure of the US Air Force, and the development of air power into a prime element of American national security.

2. Professional Officer Course (POC)

   The Professional Officer Course is designed to develop and hone managerial and officer skills during a student's junior and senior years. All students who seek a commission through the Air Force ROTC must complete the POC curriculum. The curriculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

LEADERSHIP LABORATORY

Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

- 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 265 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
- Selection by the Professor of Aerospace Studies and acceptance by the University
- Successful completion of a summer Field Training course (either 4 or 6 week)
- 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 students enrolled in the Professional Officer Course receive a tax-free monetary allowance of $150 per month.

AIR FORCE ROTC SCHOLARSHIP PROGRAM

Scholarships are phased at 4, 3, and 2-year opportunities. This system provides opportunities to those students enrolled in certain academic majors. These scholarships provide for full tuition, and an allowance for fees and textbooks. Scholarship recipients also receive the $150 monthly tax-free monetary allowance. A POC Incentive scholarship is available to eligible cadets enrolled in the last two years of our program regardless of major as long as they graduate prior to becoming 25 years old and maintain a term grade point average of 2.35 or greater.

SUMMER TRAINING

All students must attend a summer Field Training course conducted at several Air Force bases. 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, and they will receive approximately $550. 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 Corps curriculum. Students who complete the six-week course receive approximately $800.

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. Such obligations are explained in detail during the one-on-one counseling sessions conducted with each prospect by detachment officers. During their initial period of active service, new officers are given the opportunity to attain career status by obtaining a regular
commission in the United States Air Force.

ARMY ROTC (MILITARY SCIENCE)
Chair: LtCol Edward Earl Hampton, Jr., Trailer 501, Room 110, Phone (407) 823-2430, Fax (407) 823-5324
Faculty/Staff: CPT Hodges, CPT King, CPT Lamb, MSG Boardman, SFC Rivera, SGT Killian, SGT Coyle, Ms. Martin, Office Manager, Phone (407) 823-2430

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 new Simultaneous Membership Program (SMP) which combines Reserve Forces Duty with Army ROTC officer training courses on campus. Students earn about $3700.00 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 AROT C program can be found on the AROT C Department home page at http://pegasus.cc.ucf.edu/~arotc/.

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 (MIS 1031, 1400, 2120, 2300). 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 normally 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 $150.00 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. These requirements include taking at least one course in each of the following areas: Written Communication Skills, Human Behavior, Military History (AMH 3540), Computer Literacy and Math Reasoning (MIS 3301, 3410 4421 and 4430). Students must meet pre-requisite requirements prior to participating in the Advanced program. They must also successfully complete a 35-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, JROTC, prior military service or permission of the Department Chair
- Must be 17 years of age at the time of entry, but not more that 30 years of age at the time of commissioning (30-year age regulation 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 6 hours)
- US Citizen

3. Monetary Allowance
All contracted and scholarship students enrolled in the Advanced Military Science Course receive a tax-free monetary allowance of $150.00 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 $150 monetary allowance 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
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.

MILITARY SCIENCE ELECTIVE: Orienteering and Survival Course

Army ROTC hosts an Orienteering and Survival course open to all students on campus as an elective. This class is offered as a service to the UCF community. For Army ROTC cadets, it does not count towards commissioning credit unless approved by the Professor of Military Science (Chair, Military Science Department). For additional information on any aspect of the above program call (407) 823-2430 or 5383.
COLLEGE OF HEALTH AND PUBLIC AFFAIRS

Dean: Belinda R. McCarthy, HPB 207, (407)823-0171
Associate Dean: Michael J. Sweeney, HPB 207, (407) 823-0171
Assistant Dean: Joyce Dorner, HPB 207, (407) 823-0171

The College of Health and Public Affairs is composed of two schools and five departments. The two schools are Nursing and Social Work. The health-related disciplines include: Communicative Disorders, Health Professions and Physical Therapy, and Molecular Biology and Microbiology. The Criminal Justice/Legal Studies and Public Administration programs comprise the public affairs unit of the college.

As a college, we are responsible for educating professionals in health, human and public service. As an integral part of the Central Florida community, we have as our mission the advancement of knowledge, education, public policy and professional practice in health and public affairs.

The college offers thirteen baccalaureate, eight graduate programs, seven minors and one certificate program.

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 Cardiopulmonary Sciences, Medical Laboratory Sciences, Health Information Management, Physical Therapy and Radiologic Sciences. Application must be made to the appropriate program in health sciences. For Social Work, contact the School of Social Work. 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 limited access: Departments of Communicative Disorders, Criminal Justice/Legal Studies, Molecular Biology/Microbiology, and Public Administration; and the Program in Health Service Administration.

ADVICEMENT

OFFICE OF STUDENT SUPPORT

Director of Student Support: Judy Sindlinger, HPB 201, Phone (407) 823-0010
Advisement Coordinator: Debbie Phillips, HPB 201, Phone (407) 823-0010

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 our 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 HPB 350, (407) 823-2670.

Foreign Language Requirements

Cardiopulmonary Sciences   B.S. - high school only
Communicative Disorders    B.A. - 2 semesters/ proficiency
Criminal Justice           B.S. - high school only
Health Information Management B.S. - high school only
Health Services Administration B.S. - high school only
Legal Studies              B.A. - 2 semesters/ proficiency
Medical Laboratory Sciences B.S. - high school only
Molecular Biology and Microbiology B.S. - high school only
Nursing                    B.S.N. - high school only
Physical Therapy           M.S.N. - high school only
Public Administration       B.S. - high school only
Radiologic Sciences        B.S. - 9 hours approved courses
Social Work                B.S.W. - 2 semesters/ proficiency or 2 cultural diversity courses

PROGRAMS & DEGREES

Title                                                   Degree
Cardiopulmonary Sciences                               (BS)
Communicative Disorders                                (BA, BS)
Criminal Justice                                       (BS)
Health Information Management                         (BA, BS)
Health Services Administration                         (BS)
Legal Studies                                          (BA, BS)
Medical Laboratory Sciences                           (BS)
Molecular Biology and Microbiology                     (BS)
Nursing                                                (BSN, MSN)
Public Administration                                  (BA)
Physical Therapy                                       (BS)
Radiologic Sciences                                    (BS)
Social Work                                            (BSW)

DEPARTMENTS AND PROGRAMS

DEPARTMENT OF COMMUNICATIVE DISORDERS

Chair: Chad Nye, Research Pavilion Suite 200-210, Phone (407) 249-4798

Faculty: Brice, Branten, Ingram, Mullin, Nye, Parker, Ratusnik, Rivers, Rasa-Lugo, Ryalls, Utt, Vanryckeghem

The primary goal of the Department of Communicative Disorders is the preparation of clinical specialists in Speech/Language Pathology and Audiology. Undergraduate offerings are consistent with philosophies of the American Speech-Language-Hearing Association in that most coursework is designed to provide the student theoretical foundations on which to build competent clinical skills. An on-campus clinic as well as external affiliations including area public schools, community speech and hearing centers, hospital clinics, physicians' offices and industrial settings are available for the development of various clinical competencies. Faculty are engaged in the generation and transmission of knowledge concerning speech language-hearing processes and impairments via ongoing research projects. The professional phase of the program in speech/language pathology and audiology is accredited by the Educational Standards Board of the American Speech-Language Hearing Association.
In addition to coursework for majors, the Department offers a 3-course sequence in Sign Language: SPA 4380, SPA 4381, SPA 4382.

Degrees: Communicative Disorders (BA) (BS)

Tracks: None

Minors: Communicative Disorders

DEPARTMENT OF CRIMINAL JUSTICE AND LEGAL STUDIES

Chair: B. J. McCarthy, HPB 113, Phone (407) 823-2603

Faculty: Applegate, Bost, Becker, Bishop, Bohm, Cook, Eastep, Fabianic, Flagg, Grisen, Hall, Holmes, Lanier, Lucken, Lynch, Manah, B. J. McCarthy, B. R. McCarthy, Pyle, Ravitch, Remis, Reynolds, Sanborn, Slaughter, Surette

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. Two emphases are provided: legal-general and legal-applied. The general law emphasis program is designed to provide a general background in American society as well as American law, and provides excellent preparation for law school. The applied emphasis prepares students for professional positions in law offices, public agencies, and business organizations. 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 and are available for law school advising. Satisfactory completion of program requirements in either emphasis leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Legal Studies.

Degrees: Criminal Justice (BS), Legal Studies (BA, BS)

Tracks: Legal Studies: Legal Applied and Legal General

Minors: Criminal Justice, Legal Studies

DEPARTMENT OF HEALTH PROFESSIONS AND PHYSICAL THERAPY

Chair: G. H. Frazer, TR 534, Phone (407) 823-2359

Faculty: Acierno, Barr, Bertetta, Chase-Beasley, Diesen, Douglass, Edwards, Enchelmayer, Falen, Frazer, Hamby, Hudson, Liberman, Lud, Lytle, Mendenhall, Rotarius, Valentine, Welker, Worrell

The Department of Health Professions and Physical Therapy offers a diversity of baccalaureate programs which prepare students for professions in the fields of Cardiopulmonary Sciences (Respiratory Therapy), Health Information Management, Health Services Administration, Physical Therapy and Radiologic Sciences.

The mission of the Department is to provide quality undergraduate and graduate academic 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 which fulfill documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, scientific presentations, and grantmanship. 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 Physical Therapy program requires a minimum overall and prerequisite GPA of 3.0. In addition, a minimum grade of "C" is required for prerequisite courses and required courses within the major. No CLEP, TSD, or AP credit may be used for prerequisite courses.

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 occupational stress, outcome assessment and alternative delivery mechanisms.

PROGRAM IN CARDIOPULMONARY SCIENCES

Director: L. T. Worrell, TR 534, Phone (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 Joint Review Committee for Respiratory Therapy Education 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: C. Barr, TR 534, Phone (407) 823-2359

Health Information Managers are professional members of the modern health care team responsible for: (1) the acquisition and supervision of complete medical records on each patient, (2) the design and management of health information systems which collect, process, store, retrieve, and release health information and statistics, (3) assistance to administration, other health professionals, and medical staff in developing quality assurance programs by abstraction of medical data, preparation of statistical reports, and analysis of information, and (4) assistance in collection and analysis of data for public health services planning.

The curriculum of the Health Information Management program is approved by the Commission on Accreditation 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 February 1 of the year in which admission is sought.

Degrees: Health Information Management (BS)

Tracks: None

Minors: None
PROGRAM IN HEALTH SERVICES ADMINISTRATION
Director: T. Mendenhall, TR 534, Phone (407) 823-2359
The Program offers a baccalaureate degree in Health Services Administration. The baccalaureate degree is designed for graduates of associate of science degree programs in nursing or allied health who desire to study health services administration. 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 business or leadership side. Students without a background in the health care industry can also be accommodated to build a background in health services administration.

Degrees: Health Services Administration (BS)
Tracks: None
Minors: Health Services Administration, Health Sciences

PROGRAM IN PHYSICAL THERAPY
Director: E. Hamby, TR 544, Phone (407) 823-3470
The physical therapy program at the University of Central Florida is an accredited entry-level curriculum leading to a Bachelor of Science in Physical Therapy degree. (The program is currently under review to convert to a master's program for implementation in Fall 1998.) Graduates will be eligible to take the state licensure examination in any state in the United States, or comparable examination in foreign countries with practice acts regulating the practice of health professionals. Graduates of entry-level programs are prepared to practice in an ethical, legal, safe, caring and effective manner in a variety of acute, community, rehabilitative or private health care settings, providing both physical and psychosocial intervention. Students are able to screen individuals to determine the need for physical therapy treatment or for referral to other health professionals. They can design and manage a comprehensive physical therapy plan of care that includes a comprehensive treatment plan, appropriate delegation to and supervision of other support personnel, accurate and thorough documentation of the delivery, and quantified results of, the plan of care, and participation in discharge planning and follow-up care. Graduates are also prepared to pursue graduate studies, and/or specialty training and certification in all recognized physical therapy specialties.

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: Physical Therapy (BS)
Tracks: None
Minors: None

PROGRAM IN RADIOLOGIC SCIENCES
Director: T. J. Edwards III, HPB 104, Phone (407) 823-2747
The University of Central Florida offers the only accredited Bachelor of Science in Radiologic Sciences degree program in Florida. The Radiologic Sciences Program offers students the opportunity to specialize in either Radiography or Radiation Therapy. Radiographers and Radiation Therapists are integral members of the health care team dedicated to providing high quality patient care. Graduates are prepared to function as clinically competent Radiographers or Radiation Therapists 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, 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 administration, education, quality management, and public health physics.

Radiation Therapists work closely with physicians to deliver high energy radiation for the treatment of cancer. The Radiation Therapist delivers the prescribed amount of radiation to the precise tumor site while assessing and reporting patient progress throughout the course of treatment. Employment opportunities are available in hospitals and treatment centers. Career advancement opportunities include positions in radiology administration, education, quality assurance, and dosimetry.

The program works in conjunction with Columbia Medical Center, Sanford; Health Central, Ocoee; Jewett Orthopedic Clinic, Winter Park; Halifax Medical Center, Daytona Beach; South Seminole Community Hospital, Longwood; and Winter Park Memorial Hospital, Winter Park.

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: Radiologic Sciences (BS)
Tracks: Radiography, Radiation Therapy
Minors: None

DEPARTMENT OF MOLECULAR BIOLOGY AND MICROBIOLOGY
Chair: R.N. Gennaro, BL 306, Phone (407) 823-5932
Faculty: B. Beijer, Bertetta, Chai, D. Chakrabarti, R. Chakrbarti, Charba, Fernandez-Valle, Gennaro, Hitchcock, Jacobs, Logiudice, M. S. Mendenhall, Reynolds, Sweeney, Washington, White
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 which fulfill admission requirements for all the four-year health professions and graduate programs in molecular biology and microbiology.

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)
Tracks: None
Minors: Molecular Biology and Microbiology

PROGRAM IN MEDICAL LABORATORY SCIENCES
Director: D. Hitchcock, BIO 306, Phone (407) 823-2968
Medical technologists are involved in medical diagnosis,
Minimum hours for the degree are 36-45 hours of graduate work: Family Nurse Practitioner and Nursing Administration. 

 licenced in Florida are eligible for admission into the RN to BSN Program at UCF. Applicants have to hold current RN license in Florida. 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. This program is offered in Orlando, Leesburg, and on the Brevard and Daytona campuses.

The goal of the MSN program is to prepare advanced registered nurse practitioners and administrators to assume leadership positions in a variety of healthcare settings. Two majors are offered at this time: Family Nurse Practitioner and Nursing Administration. Minimum hours for the degree are 36-45 hours of graduate work depending on the major. Either a thesis or research utilization 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, RN to MSN, MSN

**Minors:** None

**DEPARTMENT OF PUBLIC ADMINISTRATION**

**Interim Chair:** T. Liu, HPB 202, Phone (407) 823-2604

**Faculty:** Berman, Colby, Gianakis, Jurie, Lawther, Liu, Rios, Rogers, Shapek, 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 with a major in Public Administration. The baccalaureate program in Public Administration is offered on the Orlando and Brevard campuses.

**Degrees:** Public Administration (BA)

**Tracks:** None

**Minors:** Public Administration

**SCHOOL OF SOCIAL WORK**

**Director:** TBA, TR 542, Phone (407) 823-2114

**Faculty:** Abel, Brett, Colby, Dziegielewski, Green, Jacinto, Kazmerski, Leon, Poole, Sauer, Suh

The School of Social Work offers a professional degree program which 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 which requires separate application to the School of Social Work. Applications for the summer term are due February 1. Application for the fall term is due June 1. The School of Social Work also offers the Certificate of Gerontology.

The gerontology certificate is an interdisciplinary program which molds the student 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 music, music education, physical education, or art education may also find the program valuable.

If currently majoring in an area of certificate coursework, the student should work with their department to coordinate fieldwork. Otherwise the School of Social Work will plan fieldwork to complete this program.

**Degrees:** Social Work (BSW)

**Tracks:** None

**Minors:** None
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ACCOUNTING: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Admission Requirements
- Completion of the University General Education program or an AA degree from a Florida Public Community College.
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (page 76) (min 36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1104 College Algebra 3 hrs
      Select CGS 2100C Computer Fund, for Bus 3 hrs
   D. Social Foundations
      Select ECO 2013 Principles of Economics I or ECO 2023 Principles of Economics II 3 hrs
      Select one: PSY 2013, SYG 2000, ANT 2003 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites (9-12 hrs)
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Principles of Macroeconomics
   ECO 2023 Principles of Microeconomics
   *MAC2233 Concepts of Calculus
   *STA2023 (or QMB2100) Statistics
   **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" or better must take ECO3401.

3. Common Body of Knowledge (33 hrs)
   First Semester in the College of Business Administration:
   ** Students must demonstrate competency in micro-computer applications during their first semester in College of Business Administration courses. Students who fail to demonstrate competency will not be permitted to continue enrollment in the business program.
   GEB 3031 Cornerstone 6 hrs
   ECO 3401 Quantitative Business Tools I 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
   MAN 3504 Quality and Productivity Management 3 hrs
   MAR 3023 Marketing 3 hrs
   BUL 3320 Business Law I 3 hrs
   Last Semester:
   GEB 4361 Business in the Internat'l Environment 3 hrs
   MAN 4720 Strategic Management 3 hrs

4. Special College and/or Departmental Requirements
   - A minimum grade of "C" 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.
   - A transfer student to this program must take a minimum of twelve (12) semester hours in accounting at UCF as approved by the Director of the School of Accounting
   - 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 demonstrate computer proficiency. All College of Business Administration students must demonstrate computer proficiency by completion of the CBA Computer Proficiency Examination. Accounting majors must also complete CGS 2100.
   - Students not in attendance at the first meeting of any College of Business course may be dropped from the course. 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.

5. Core Requirements (27 hrs)
   ACG 3101 Intermediate Financial Accounting I 3 hrs
   ACG 3111 Intermediate Financial Accounting II 3 hrs
   ACG 3361 Cost Accounting I 3 hrs
   ACG 3501 Fin Acg for Gov't and Nonprofit Org 3 hrs
   ACG 4401 Accounting Systems I* 3 hrs
   TAX 4001 Federal Income Tax I 3 hrs
   ACG 4203 Advanced Accounting 3 hrs
   ACG 4651 Auditing 3 hrs
   BUL 3321 Business Law II** 3 hrs
   * CGS 2100C is a prerequisite for Accounting Systems.
   ** Transferable only from senior academic institutions.

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

7. University Minimum Exit Requirements
   - A 2.000 GPA in all work attempted (Overall, UCF, COB, Major)
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 semester hours of course work 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)

8. Electives As needed to result in 120 total credit hours.

***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 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.
- ACGX001 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 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 - ACCOUNTING

Freshman
Fall 15 hrs Spring 15 hrs
ENC 1101* 3 ENC 1102* 3
Cult-Hist I* 3 Cult-Hist II* 3
MAC 1104* 3 Art/Music/Lit 3
Psy/Soc/Ant 3 CGS 2100 3
Science 3 Science 3

Must complete 9 hours in a summer semester

Sophomore
Fall 15 hrs Spring 15 hrs
ECO 2013* 3 ECO 2023* 3
ACG 2021* 3 ACG 2071* 3
SPC 1600C 3 POS 2041 3
***Elective 3 ***Elective 3
***Elective 3 ***Elective 3

* "C" or better grade required in each class

Must complete CLAST requirement

**Accounting majors must have a "C" or better in each class in the major to include law and tax and a 2.0 GPA in major.

Transfer students must complete a minimum of twelve (12) hours in Accounting at UCF.

Junior
Fall 15 hrs Spring 15 hrs
- GEB 3031 6 ECO 3411 3
ECO 3401 3 BUL 3320 3
**ACG 3101 3 MAN 3025 3
**ACG 3361 3 **ACG 3111 3
**ACG 3501 3 **ACG 3501 3

-Satisfy Computer Competency Exam in same term Cornerstone completed

Senior
Fall 15 hrs Spring 15 hrs
TAX 4001 3 MAN 4720 3
MAN 3504 3 **ACG 4651 3
FIN 3403 3 **GEB 4361 3
**ACG 4401 3 **BUL 3321 3
MAR 3023 3 **ACG 4203 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.
ADVERTISING/PUBLIC RELATIONS: BACHELOR OF ARTS

College of Arts and Sciences
Nicholson School of Communication, COM 240A, (407) 823-2829, E-mail: advertising@ucf.edu
Dr. 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 10, 1998 for Spring 1999
   March 7, 1999 for Summer 1999
   July 7, 1999 for Fall 1999
• 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 FOR THE 1997-1998 YEAR WAS 2.75.
• Pass a computer and Keyboard Proficiency Test (20 wpm). The test may be taken ONLY three times. Completion of a basic college keyboard or typing course with a grade of "C" will satisfy the requirement.

Degree Requirements
• 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 6 credit hours of internship may be earned in one semester. A total of 9 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 1600C Fund Oral Communication 3 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 (3 hrs)
   SPC 1600C Fund Oral Communication 3 hrs

3. Core requirements (33 hrs)
   ADV 4000 Principles of Advertising 3 hrs
   ADV 4003 Advertising Layout and Prep 3 hrs
   ADV 4101* Ad Copy and Campaigns 3 hrs
   ADV 4103 Radio-TV Advertising 3 hrs
   COM 3110 Business and Prof Speaking 3 hrs
   COM 3311 Comm Research Methods 3 hrs
   MMC 4200 Mass Communication Law 3 hrs
   VIC 3001 Visual Communication 3 hrs
   PUR 3100* Writing for Public Relations 3 hrs
   PUR 4000† Public Relations 3 hrs
   Select one course 3 hrs

   PUR 4800 Public Relations Campaigns
   PUR 4941 Internship
   ADV 4941 Internship
†Students who complete a 3-hour internship may take either PUR 4800 or ADV 4103.
*Keyboard Proficiency Test required.

4. 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 Ad/PR courses. This GPA does not include Restricted Electives in the major or other 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   • 60 semester hours earned after CLEP awarded
   • 48 semester hours of upper division credit completed
   • 30 semester hours in regular courses completed at UCF
   • A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   • Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Marketing
Related Minors: Business

Transfer notes:
• "D" grades from other institutions do not meet departmental 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
AEROSPACE ENGINEERING:
BACHELOR OF SCIENCE

College of Engineering
Mechanical, Materials & Aerospace Engineering Department,
ENG 381D, (407) 823-2416 FAX: (407) 823-0208, Home
Page http://www-mmae.engr.ucf.edu
Dr. J. D. McBrayer, E-Mail: mcbrayer@mail.ucf.edu

Admission Requirements:
All entering students are required by UCF 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. Each entering student should plan to attend
Orientation at the earliest date offered, and must ensure that required
transcripts have been submitted to the Admissions Office well in
advance of the selected orientation date. Transcripts require
processing, and this information must be available to engineering
advisors at Orientation to assist students in selecting and registering
for appropriate first-semester classes.

Degree Requirements
- The State University System requires most students to complete
  a minimum of 9 semester hours during summer terms prior to
  graduation. See the section, Summer Attendance Requirement,
  elsewhere in this catalog.
- Engineering students are required to complete at least 32 semester
  hours of regularly-scheduled 3XXX- or 4XXX-level courses
  specifically in the selected major.
- 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

   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. Using these substitutions will help
   the engineering student to minimize excess hours. Students
   transferring to UCF from within the Florida State University/
   Community College Systems are encouraged to complete the GEP
   and the Common Program Prerequisites before transferring.
- Beginning freshman engineering students must complete the UCF
  GEP for Engineering Students as detailed in paragraphs A.
  through E. below. Those students who have not completed a
  college preparatory course of study in high school may be
  required to complete additional prerequisite courses before taking
  specific courses shown.
- Students who are transferring to the UCF College of Engineering
  and who have completed the general education program at a
  State of Florida public institution must complete the UCF GEP
  for Engineering Students as detailed in paragraphs A. through E.
  below.
- Students who have completed the general education requirements
  at any of the Florida public institutions have, by law, met the
  UCF GEP requirements and may begin appropriately enrolling in
  Common Program Prerequisites and Courses Required for the
  Major as shown in paragraphs 2. and 3. below.

A. Communication Foundations
   9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. SPC 1016 is the preferred substitute for SPC 1600C for
      engineering students.
   See the descriptions of these courses in the section, Alphabetical
   Listing of Courses, later in this catalog.

B. Cultural and Historical Foundations
   9 hrs
   Engineering students should meet this requirement as it is
   described in the section, General Education Program, found
   elsewhere in this catalog.

C. Mathematical Foundations
   6 hrs min.
   1. Take MAC 2311, Calculus I, (4 hrs) to meet this sub-
      requirement and the same listed below in 2.

2. Common Program Prerequisites (CPR's)
   (48 hrs)
   These courses are specifically required for all engineering students
   of the Florida State University System. CPR courses are also
   available at other Florida post-secondary schools and may be
   transferred directly to UCF programs. NOTE: MAC 2311 and
   PHY 2048/48L also satisfy UCF GEP sub-requirements 1.C.L and
   I.E.L, respectively.

   - CHS 1440 Fundamentals of Chemistry for Eng 4 hrs
     (CHM 2045/45L will substitute)
   - MAC 2311 Calculus with Analytic Geometry I 4 hrs
     (MAC 2281 will substitute)
   - MAC 2312 Calculus with Analytic Geometry II 4 hrs
     (MAC 2282 will substitute)
   - MAC 2313 Calculus with Analytic Geometry III 4 hrs
     (MAC 2283 will substitute)
   - MAP 2302 Differential Equations 3 hrs
   - PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
   - PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
   - ENC 1101 Composition I 3 hrs
   - ENC 1102 Composition II 3 hrs
   - Humanities 6 hrs
   - Social Science Courses 6 hrs
   - Humanities at Social Sciences 3 hrs

   Take PHY 1003 to satisfy this requirement.
   See the course descriptions to assist in making your selection.
3. Courses Required for the Major (68 hrs)
The College of Engineering requires all engineering students to achieve a minimum of 2.250 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 I, S, or U. NOTE: Course STA 3032 also satisfies GEP requirement 1.C.2. above.

- EGN 1006 Intro to the Engineering Profession 1 hr
- EGN 1111C Engineering Computer Graphics 2 hrs
- EGN 1930 ST: 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 3930 ST: Principles of Electrical Engrng 3 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- EAS 3010 Fundamentals of Flight 1 hr
- EAS 3101 Aerodynamics I 3 hrs
- EAS 3800C Aerospace Engineering Measurements 3 hrs
- EAS 3810C Design of Aircraft Experiments 2 hrs
- EAS 4105 Flight Mechanics 3 hrs
- EAS 4134 High-Speed Aerodynamics 3 hrs
- EAS 4200 Flight Structures 3 hrs
- EAS 4210 Space Structural Dynamics or EAS 4400 Spacecraft Attitude Dynamics or EAS 4505 Orbital Mechanics 3 hrs
- EAS 4300 Aerothermodynamics-Propulsion Sys 3 hrs
- EML 3034 Modeling Methods in MMAE 3 hrs
- EML 3312C Feedback Control 3 hrs
- EML 3601 Solid Mechanics 3 hrs
- EML 3701 Fluid Mechanics I 3 hrs
- EML 3804C Mechatronics 3 hrs
- EML 4535C Introduction to CAD/CAM 3 hrs

Approved Technical Electives

4. Departmental Graduation Requirements (6 hrs)
- EAS 4700C Aerospace Design I 3 hrs
- EAS 4710C Aerospace Design II 3 hrs

- COE encourages all engineering students to take the Engineering Intern Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)
Admission: 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None.

6. Approved Technical Electives
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.

7. University Minimum Graduation Requirements
- A 2.000 GPA in all work attempted (both UCF and overall).
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 31 semester hours of regular courses completed 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 9 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.

Tentative Course Schedule for Entering Freshmen

Aerospace Engineering - 128 semester hours required

FIRST YEAR

**Fall** 15 hrs<sup>1</sup>
- EGN 1006 Intro to Eng Prof 1
- EGN 1930 ST: Eng Conc/Meth 1
- *ENC 1101 English Comp I 3 *ENC 1102 English Comp II 3
- *CHS 1440 Chem for Eng 4
- *SPC 1016 Tech Presentations 3
- *ECO 2013 or ECO 2023 Prin of Econ I, II 3
- *MAC 2311 Calc w/ Anal Geom II 4
- *MAC 2311 Calc w/ Anal Geom I 4
- *PHY 2048 Phys for Engr/Sci I 3
- *PHY 2048L Phys Lab Engr/Sci I 1

**Summer** 10 hrs<sup>1, 3</sup>
- *Cult & Hist Foundations 1a 3
- *Social Foundations 2 3
- *MAC 2313 Calc w/ Anal Geom III 4

SECOND YEAR

**Fall** 16 hrs<sup>1</sup>
- *MAP 2302 Diff Equations 3
- *EGN 3310 Engr Anal - Statics 3
- *PHY 2049L Phys fr Eng/Sci II 4
- EGN 3310 Engr Anal - Statics 3
- EGN 3365 Thermodynamics 3
- STA 3032 Prob & Stats/Engr 3
- EAS 4134 High-Speed Aerodynamics 3
- EAS 4200 Flight Structures 3
- EAS 4210 Space Structural Dynamics or EAS 4400 Spacecraft Attitude Dynamics or EAS 4505 Orbital Mechanics 3
- EAS 4700C Aerospace Design I 3
- EAS 4710C Aerospace Design II 3
- COE encourages all engineering students to take the Engineering Intern Exam during their Senior year.

**Spring** 15 hrs<sup>1</sup>
- ENG 3202 Statics 3
- EGN 3343 Thermodynamics 3
- STA 3032 Prob & Stats/Engr 3
- EAS 4105 Flight Mechanics 3
- EAS 4134 High-Speed Aerodynamics 3
- EAS 4200 Flight Structures 3
- EAS 4210 Space Structural Dynamics 3
- EAS 4400 Spacecraft Attitude Dynamics 3

THIRD YEAR

**Fall** 15 hrs<sup>1</sup>
- EAS 4200 Flight Structures 3
- EAS 3800C Aerosp Eng Mgr 3
- EML 3312C Feedback Control 3
- EML 3701 Fluid Mechanics I 3
- EML 3804C Mechatronics 3
- EML 4535C Introduction to CAD/CAM 3
- Eng Conc/Meth 1

**Spring** 14 hrs<sup>1</sup>
- *Science Foundations 2 3
- EAS 3800C Aerosp Eng Mgr 3
- EML 3312C Feedback Control 3
- EML 3701 Fluid Mechanics I 3
- EML 3804C Mechatronics 3
- EML 4535C Introduction to CAD/CAM 3
- EAS 4400 Spacecraft Att Dyn or EAS 4505 Orbital Mechanics 3

FOURTH YEAR

**Fall** 15 hrs<sup>1, 2</sup>
- *Cult & Hist Foundations 1b 3
- Approved Technical Electives 4
- EML 4535C CAD/CAM 3
- EAS 4105 Flight Mechanics 3
- EAS 4134 High-Speed Aerodynamics 3
- EAS 4700C Aircraft Design 3

**Spring** 13 hrs<sup>1</sup>
- EAS 4105 Flight Mechanics 3
- EAS 4134 High-Speed Aerodynamics 3
- EAS 4700C Aircraft Design 3

Footnotes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult 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.
3. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
4. Aerospace engineering students must earn at least 32 hours in residence at UCF.
ANIMATION TRACK, FILM & ANIMATION: BACHELOR OF ARTS

College of Arts and Sciences
Film & Animation, VAB 210, (407) 823-3110,
E-mail: animation@ucf.edu
Mr. D. Haxton
Limited Access program.

Admission Requirements
- Students must complete ART 2201 & 2203 (Design Fundamentals), ART 2300 & 2301 (Drawing Fundamentals), ART 2600C (Computer Graphics), and FIL 3242 (Introduction to Cel Animation) before applying.
- Students must submit a satisfactory drawing portfolio to be admitted to FIL 3242 (Introduction to Cel Animation).
- Students must maintain an overall minimum 3.0 GPA in the above courses.
- Applications must include a portfolio of work done in these courses, including drawings, design projects, computer graphics, animation work, and storyboards.
- Students must submit a written essay.
- Deadlines for applications for admission into Animation are September 15 for Spring term and February 1 for the Fall term.
- Students are admitted on a space available basis.

Degree Requirements
- Students are required to maintain an overall 3.0 GPA in required courses after acceptance into the Animation program.
- 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 I (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 MAC 1104 College Algebra or MGF 1203 Finite Mathematics
      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 (3 hrs)
   FIL 2400 History of the Motion Picture
   3 hrs

3. Core requirements (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 2600C Intro to Computer Graphics
   3 hrs
   FIL 3282 Introduction to Cel Animation
   3 hrs
   FIL 3410 History of Animated Films
   3 hrs
   FIL 4942 Animation Workshop
   3 hrs
   FIL 4251 Post-Production workshop
   3 hrs

4. Restricted Upper Division Elective (3 hrs)
   any upper level FIL course designed for majors

5. Core specialty requirements (12 hrs)
   Complete one of the 2 tracks. Workshops may be repeated.
   
   Computer Animation
   FIL 3285 Intro to Computer Animation
   3 hrs
   FIL 3286 Intermed Computer Animation
   3 hrs
   FIL 4233C Advanced Computer Animation
   3 hrs
   FIL 4288 Computer Animation Workshop
   3 hrs
   Cel Animation
   FIL 4283 Intermediate Cel Animation
   3 hrs
   FIL 4293C Advanced Cel Animation
   3 hrs
   FIL 4294C Cel Animation Workshop
   6 hrs

6. Departmental Exit Requirements (6 hrs)
   FIL 4970 Undergraduate Thesis
   6 hrs
   To avoid delaying graduation, request a review of requirements
   2 terms before registering for your last term.
   Maintain at least a "B" GPA (3.0) in all courses taken in sections
   2 through 6 above.
   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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   60 semester hours earned after CLEP awarded
   48 semester hours of upper division credit completed
   30 semester hours in regular courses completed at UCF
   A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Art, Film Production/Screen writing, Radio/TV

Related Minors: Art

Transfer notes:
- "D" grades from other institutions do not meet departmental 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.

48 semester hours of upper division credit completed
ANTHROPOLOGY: BACHELOR OF ARTS

College of Arts and Sciences
Department of Sociology and Anthropology, FA 405, (407) 823-2227, E-mail: anthropology@ucf.edu
Dr. J. Corzine, (407) 823-2227

Students study all subfields of Anthropology: Cultural Anthropology, Archaeology, Physical Anthropology, and Linguistics.

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

- 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 at least a 2.0 in all courses used for 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 1104 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 2003 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 (6 hrs)
   - ANT 2003* General Anthropology 3 hrs
   - ANT 2511* The Human Species 3 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (27 hrs)
   - ANT 2211 Arch & the Rise of Human Cult 3 hrs
   - ANT 2410 Cultural Anthropology 3 hrs
   - ANT 3145 Arch of Complex Societies 3 hrs
   - ANT 3422 Peoples of the World 3 hrs
   - ANT 3610 Language and Culture 3 hrs
   - ANT 4084 Hist of Anthropological thought 3 hrs
   - Select 3 courses from the following 9 hrs
     - ANT 3163 Mesoamerican Archaeology
     - ANT 3311 Indians of the SE US
     - ANT 3312 Ethnology of North Amer Indians
     - ANT 3313 Indians of N Amer High Plains
     - ANT 3328 Maya Archaeology
     - ANT 3332 Peoples and Cult of Latin Amer
     - ANT 3360 Peoples of the Far East
     - ANT 3363 Anthropology of Japan

4. Restricted Electives (15 hrs)
   - Select 5 courses from the following, with at least one course from each group
     - Cultural
       - ANT 3302 Sex, Gender, and Culture
       - ANT 3241 Magic, Ritual, and Belief
       - ANT 3262 Rural Society
       - ANT 3271 Law and Culture
     - Archaeology
       - ANT 3122 Arch Method and Theory
       - ANT 3142 Old World Prehistory
       - ANT 3184 Mortuary Archaeology
       - ANT 4124 Adv Archaeological Fieldwork
       - ANT 4180 Seminar in Laboratory Analysis
     - Physical
       - ANT 4466 Medical Anthropology
       - ANT 4527 Functional Morphology of the Human Skeleton
       - ANT 4586 Human Origins
       - ANT 3541 Biobehavioral Anthropology

5. Departmental Exit Requirements
   - A minimum grade of C in all courses used in the major
   - Computer Competency met by ANT 2211
   - 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.

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Sociology

Related Minors: Anthropology, Anthropology in Multicultural Studies, Sociology

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- ANT 2003: 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: BACHELOR OF FINE ARTS (BFA)

College of Arts and Sciences
Art Department VAB 117, (407) 823-2676, E-mail: art@ucf.edu
Advisor J. Chavda, 823-2676

The BFA degree is recommended for studio art majors who plan to attend graduate school.

Admission Requirements
- The student must submit a formal application and a portfolio to the Faculty after completing 90 semester hours
- All applicants will be reviewed by the Art BFA Portfolio Review Committee. Deadlines for formal application are announced every Fall and Spring semester.

Degree Requirements
- 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
   C. Mathematical Foundations
      Select ARH 2050 The History of Art I or ARH 2051 The History of Art II
      3 hrs
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites (24 hrs)
   ART 2201C* Design Fundamentals I
   ART 2203C* Design Fundamentals II
   ART 2300C* Drawing Fundamentals I
   ART 2301C* Drawing Fundamentals II
   ARH 2050 History of Art I
   ARH 2051 History of Art II
   ART 2600C* Intro to Computer Graphics
   ART 2XXX-4XXX any ART prefix, studio or media course
   *See Transfer Notes for possible substitutes

3. Restricted Electives (42 hrs)
   ARH 3XXX-4XXX Art History Courses
   Specialization:
   Select six upper division courses from one area:
   Cel Animation (FIL 3282, 4283, 4293C*, 4294C*)
   Ceramics (ART 3111C, 4114C)
   Computer Animation (FIL 3285, 3286, 4233C*, 4288*)
   Drawing (ART 3330C, 3331C, 4320C*)
   Fibers and Fabrics (ART 3XXXC*, 4138C*)
   Graphic Design (ART 3293C, 3232C, 3610C, 4235C, 4237C*)
   Illustration (ART 3253C, ART 4XXXC*)
   Painting (ART 3502C, 4502C*)
   Photography (PGY 3XXXC, 4420C*, 4440C*)
   Printmaking (ART 3400C, 4402C*)
   Sculpture (ART 4703C*).
   *may be repeated for credit

   Elective in Art: 15 hrs
   Select five upper division courses
   Select from at least three of the following areas, excluding the area of specialization.
   Cel Animation, Ceramics, Computer Animation, Drawing, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture and Special Topics Studio Courses.

4. Departmental Exit Requirements (3 hrs)
   ART 4935C BFA Exhibit/Seminar

   (BFA Exhibit Seminar is only offered during Spring Semester)
   - Achieve at least a "B" GPA (3.0) in courses within the major
   - Each senior is required to submit a portfolio of representative work in the student's area of concentration, for review and approval by faculty, during their last semester of matriculation toward the degree
   - Computer Competency met by CGS 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 advisor's approval. May be outside of the department.

7. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Art History, Studio Art (BA), Art Education

Related Minors: Partners in Visual Art Education

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- ART 2201C* and 2203C*: A student may substitute a four credit course ART 2201; however, both ART 2201 and 2203 are prerequisites 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 2300; however, both ART 2300 and 2301 are prerequisites 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 EDUCATION: BACHELOR OF SCIENCE

College of Education
Instructional Programs, ED346, (407) 823-2939
Dr. Thomas Brewer, Coordinator

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student’s major
- meet any special departmental requirements

Degree Requirements
- Students should see an advisor
- The courses designated in I (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
      - Select *SPC 1600C Fundamentals of Oral Comm 9 hrs
      - Select ENC 1101 Composition I
      - Select ENC 1102 Composition II

   B. Cultural-Historical Foundations
      - Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020 9 hrs
      - Select *ARH 2050, 6 hrs
      - C. Mathematical Foundations
          - Select *MAC 1104 College Algebra or MGF 1203 Finite Math 6 hrs
          - Select CGS 1060C Intro Comp Sci or STA 2014 Statistical Math 6 hrs
      - D. Social Foundations
          - Select *PSY 2013 Ge. Psychology 6 hrs
          - Select ECO 2013 Principles of Economics or POS 2041 American National Government 6 hrs
      - E. Science Foundations
          - Select PSC 1121 Physical Science 6 hrs
          - Select BSC 1020 Biological Principles
          - Select *College Preprofessional Requirements.

2. Common Program Prerequisites** (9 hrs)

   EDF 2005 Intro to Education 3 hrs
   *EDG 2701 Teaching Diverse Populations 3 hrs
   EME 1040 Intro to Technology 3 hrs

   *In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

   *PLUS the following General Program Prerequisites:
   - ART 2201C 3 hrs
   - ART 2203C 3 hrs
   - ART 2300C 3 hrs
   - ART 2301 3 hrs
   - ARH 2050 3 hrs
   - ARH 2051 3 hrs

   *PLUS two of the following three courses:
   - ART X510 3 hrs
   - ART X400 3 hrs
   - ART X100 3 hrs

3. Preprofessional Requirements
   *See General Education Program
   - SPC 1600C Fund’als of Oral Comm GEP
   - PSY 2013 Gen Psychology or GEP
   - MAC 1104 College Algebra or GEP
   - MGF 1203 Finite Math
   - ART 2201C Design Fund I

4. Specific Program Prerequisites (6 hrs)

   ARE 4351 Meth/Tch Art Ed I 3 hrs
   ARE 4352 Meth/Tch Art Ed II 3 hrs

5. Education Core Requirements (9 hrs)

   EDG 4323 Professional Teaching Practices 3 hrs
   EDF 4603 Anal. Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs

6. Internship I (ESE3940) (6 hrs)

   - A student must have completed the portfolio process for Internship I satisfactorily before student teaching
   - At least 50% of all required art courses must be completed before registering for Internship I

7. Core Requirements (33 hrs)

   - All these courses must be taken prior to enrollment in any 3,000 or 4,000 level specialization coursework.
   - ART 2201C Design Fund I 3 hrs
   - ART 2203C Design Fund II 3 hrs
   - ART 2300C Drawing Fund I 3 hrs
   - ART 2301 Drawing Fund II 3 hrs
   - ARH 2050 Hist of Art I GEP
   - ARH 2051 Hist of Art II 3 hrs
   - ART 2600 Intro to Computer Graphics 3 hrs
   - ART 3111C Ceramics 3 hrs
   - ART 3510C Painting I 3 hrs
   - ART 3400C Printmaking 3 hrs
   - ARE 4356 Teaching Art Appr 3 hrs
   - PGY 2401 Photography 3 hrs

8. Restricted Electives - Select Three (15 hrs)

   Any 3,000 or 4,000 level ART, ARE, ARH, PGY (With advisor's approval.)

9. Internship II (ESE 4943) (12 hrs)

   - A student must have completed the portfolio process for Internship II Satisfactorily before student teaching
   - All art courses and all methods courses must be completed before registering for Internship II

145
10. Foreign Language Requirements (0-6 hrs)
State University System foreign language admission requirement:
2 years in high school or 1 year of college instruction in a single
foreign language. (This requirement applies to those students
admitted to the University without the required 2 units of foreign
language in high school)

11. Departmental Exit Requirements
Achieve a 2.5 GPA in all courses within the major.

12. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the
  CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 126 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.
*Aceptable Substitutes:
While another course (3 hours) may be acceptable, for certification
purposes students should take the listed courses. The courses are
prerequisites for upper division coursework.
ART 2205 and ART 2206 are acceptable substitutes for ART 2201
and ART 2203.
ART - HISTORY TRACK: BACHELOR OF ARTS

College of Arts and Sciences
Art Department, VAB 117, (407) 823-2676
E-mail: art@ucf.edu
Advisor, K. Congdon, 823-2195

Admission Requirements  None

Degree Requirements
- 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 or ARH 2051 The History of Art II 3 hrs
   C. Mathematical Foundations
      Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics 3 hrs
      Prefer CGS 1106C Intro to Computer Sci 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (12 hrs)
   ART 2201C Design Fundamentals I 3 hrs
   ART 2300C Drawing Fundamentals I 3 hrs
   ARH 2050 History of Art I 3 hrs
   ARH 2051 History of Art II 3 hrs

3. Core Requirements (15 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

4. Restricted Electives (18 hrs)
   One Non-Western Art History Course: 3 hrs
   ARH 3520 African Art
   ARH 4545 Art of India
   ARH 3530 Asian Art
   ARH 4655 MesoAmerican Art

   One of the following courses: 3 hrs
   ARH 4350 Baroque Art
   ARH 4458 Women & Art in 20th Century 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 since 1945
   ARH 5451 Artistic World Views
   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 CGS 1106C, 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Studio Art (BA, BFA), Art Education, Film & Animation.

Related Minors: Studio Art, Partners in Visual Art Education

Transfer notes:
- "D" grades from other institutions do not meet departmental 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
ART - STUDIO TRACK: BACHELOR OF ARTS

College of Arts and Sciences
Art Department VAB 117, (407) 823-2676
E-mail: art@ucf.edu
Advisor S. Chavda, 823-2676

Admission Requirements
- A portfolio is required for the Graphics Design Specialization. Deadline for application is April 1st prior to beginning of the Junior year. *See Transfer Notes for possible substitutes
- A portfolio is required for the Animation Specialization. Deadlines for application are September 15 for Spring term and February 1 for the Fall term

Degree Requirements
- 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
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundations

2. Common Program Prerequisites (24 hrs)
   ART 2201C Design Fundamentals I
   ART 2203C Design Fundamentals II
   ART 2300C Drawing Fundamentals I
   ART 2301C Drawing Fundamentals II
   ARH 2050 History of Art I
   ARH 2051 History of Art II
   ART 2600C Intro to Computer Graphics
   ART 2XXX-4XXX any ART prefix, studio or media course

3. Restricted Electives (33 hrs)
   ARH 3XXX-4XXX Art History Courses
   Specialization: 15 hrs
   Select five upper division courses from one area:
   - Cel Animation (FIL 3282, 4283, 4293C*, 4294C*)
   - Ceramics (ART 3111C, 4114C)
   - Computer Animation (FIL 3285, 3286, 4233C*, 4288*)
   - Drawing (ART 3330C, 3331C, 4320C*)
   - Fibers and Fabrics (ART 3XXX, 4138C*)
   - Graphic Design (ART 3239C, 3232C, 3610C, 4235C, 4237C*)
   - Illustration (ART 3253C, 4XXX*)
   - Painting (ART 3502C, 4530C*)
   - Photography (PGY 3XXX, 4420C*, 4440C*)
   - Printmaking (ART 3400C, 4402C*)
   - Sculpture (ART 3XXX, 4703C*)
   *may be repeated for credit

4. Departmental Exit Requirement
   - Each senior is required to submit a portfolio of representative work in the student's area of specialization, for review and approval by faculty, during their last semester of matriculation toward the degree
   - Achieve at least a "C" GPA (2.0) in courses within the major
   - Computer Competency met by CGS 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Art History, Studio Art (BFA), Art Education

Related Minors: Partners in Visual Art Education

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- ART 2600C: may substitute 3 hours of any media course
### Admission Requirements
None

### Degree Requirements
- No credit by exam (CLEP, TSD, Military credit), "D" or "S" grades from other institutions may be used for the major.
- No more than 4 hours of BSC 4401L, 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.
- E-mail: biology@ucf.edu
Dr. W. Taylor, (407) 823-2141

### 1. UCF General Education Program (36 hrs)
- A. Communication Foundations 9 hrs
- 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 2053C College Physics (PR: MAC 1104 and MAC 1116) 4 hrs
  - 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 2045 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
  - 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 (21-23 hrs)
- CHM 2210 Organic Chem. I 3 hrs
- CHM 2211 & L Organic Chem. II & lab 5 hrs
- CHM 3120C Analytical Chemistry 5 hrs
- CHM 2205 Intro Organic & Biochemistry 5 hrs
- PCB 3043 Ecology 3 hrs
- PCB 3063 Genetics 3 hrs
- PCB 3023 Molecular Cell Biology 3 hrs
- PCB 4683 Population Biol & Evolution 4 hrs

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 (23 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.
- 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 (minimum of one lecture course)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Hrs</th>
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<tbody>
<tr>
<td>BCH 4053</td>
<td>Biochemistry I</td>
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<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
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<tr>
<td>b BOT 4223C</td>
<td>Plant Anatomy</td>
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<tr>
<td>b BOT 4303C</td>
<td>Plant Kingdom</td>
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<tr>
<td>b BOT 4503C</td>
<td>Plant Physiology</td>
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<tr>
<td>BSC 4103</td>
<td>History of Biology</td>
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<tr>
<td>MCB 4414</td>
<td>Microbial Metabolism</td>
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<tr>
<td>PCB 3063L</td>
<td>Genetics Laboratory</td>
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<tr>
<td>PCB 4524</td>
<td>Molecular Biology II</td>
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<td>PCB 3233</td>
<td>Immunology</td>
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<td>a PCB 4723</td>
<td>Animal Physiology</td>
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<tr>
<td>a PCB 5XXXC</td>
<td>Human Genetics</td>
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<td>a ZOO 3713C</td>
<td>Comparative Vert Anatomy</td>
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<tr>
<td>a ZOO 4603C</td>
<td>Embryology/Development</td>
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<tr>
<td>a ZOO 4753C</td>
<td>Vertebrate Histology</td>
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**Environmental (minimum of one lecture course)**

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<tr>
<td>b BOT 3154C</td>
<td>Local Flora</td>
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<tr>
<td>b BOT 4680C</td>
<td>Florida Wildflowers</td>
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<td>b BOT 3800</td>
<td>Ethnobotany</td>
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<tr>
<td>b BOT 3820C</td>
<td>Plants and Urban Environment</td>
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<td>b BOT 4686C</td>
<td>Conservation of Native Plants</td>
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<tr>
<td>b BOT 5623C</td>
<td>Plant Geography &amp; Ecology</td>
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<tr>
<td>BSC 4XXXC</td>
<td>Marine Biology</td>
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<tr>
<td>IDS 3XXX</td>
<td>Interdisc. Environmental Studies</td>
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<tr>
<td>PCB 3043L</td>
<td>Ecology Laboratory</td>
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<td>PCB 3442</td>
<td>Florida Aquatic Ecology</td>
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<td>PCB 4302C</td>
<td>Physicochemical Limnology</td>
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<td>PCB 4303C</td>
<td>Biological Limnology</td>
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<td>PCB 5326C</td>
<td>Ecosystems of Florida</td>
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<td>PCB 5045C</td>
<td>Conservation Biology</td>
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<td>PCB 5485</td>
<td>Models in Ecology</td>
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<td>PCB 5XXXC</td>
<td>Landscape Ecology</td>
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<tr>
<td>a ZOO 4880C</td>
<td>Fisheries Management</td>
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<tr>
<td>a ZOO 5815</td>
<td>Zoogeography</td>
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**Systematic (minimum of one lecture course)**

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<tr>
<td>b BOT 4713C</td>
<td>Plant Taxonomy</td>
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<tr>
<td>b BOT 5495C</td>
<td>Bryology</td>
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<tr>
<td>b BOT 5705C</td>
<td>Plant Biosystematics</td>
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<tr>
<td>a ENY 4004C</td>
<td>General Entomology</td>
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<tr>
<td>MCB 3020C</td>
<td>General Microbiology</td>
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<tr>
<td>MCB 4114C</td>
<td>Microbial Systematics</td>
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<tr>
<td>PCB 3301C</td>
<td>Aquatic Biology</td>
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<td>a ZOO 4205C</td>
<td>Bio &amp; Ecol of Metazoan Invert's</td>
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<tr>
<td>a ZOO 4301C</td>
<td>Vertebrate Evolution &amp; Ecol</td>
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<tr>
<td>a ZOO 5456C</td>
<td>Ichthyology</td>
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<td>Herpetology</td>
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</tr>
</tbody>
</table>
5. Departmental Exit Requirements
- A 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 test in biology during their last semester.
- UCF Biology majors may 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 (2) years of one foreign language in high school, or one (1) 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- “D” grades from other institutions do not meet departmental 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 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 2011 or both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 2014, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282
- MAC 2311: may use MAC 2333, MAC 2253 or MAC 2281
- Physics*: Although Common Program Prerequisites permit substitutions, Organic chemistry for Physics, both Physics and
# BIOLOGY - PREPROFESSIONAL TRACK: BACHELOR OF SCIENCE

## College of Arts and Sciences
Biology Department, BL 210, (407) 823-2141
http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu
Dr. D. Vickers

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 which will meet both sets of requirements.

### Admission Requirements
None

### Degree Requirements
- No credit by exam (CLEP, TSD, Military credit), "D" or "S" grades from other institutions may be used for the major.
- No more than 4 hours of BSC 4401L, 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 (36 hrs)

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td></td>
<td></td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td></td>
<td></td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select MAC 2311 Calculus</td>
<td></td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td>Select STA 2023 Statistical Methods I</td>
<td></td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prefer PSY 2013 General Psychology</td>
<td></td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>Prefer ECO 2013 Economics</td>
<td></td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prefer PHY 2048 &amp; L College Physics &amp; lab (PR:MAC 2311)</td>
<td></td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td>Select BSC 2010C General Biology</td>
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### 2. Common Program Prerequisites (31 hrs)

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<tr>
<td>BSC 2010C*</td>
<td>General Biology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>BSC 2011C*</td>
<td>Biological Diversity</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2311*</td>
<td>Calculus w/ Analytic Geometry</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2023*</td>
<td>Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 2045*</td>
<td>Chem Fund I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2046 &amp; L Chem. Fund II &amp; lab</td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td>PHY 2048* &amp; L Physics for Engr. &amp; Sci. I &amp; Lab</td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td>PHY 2049* &amp; L Physics for Engr. &amp; Sci. II &amp; Lab</td>
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<td>4 hrs</td>
</tr>
</tbody>
</table>

*See Transfer Notes for possible substitutes

### 3. Additional Core requirements (21 hrs)

<table>
<thead>
<tr>
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</thead>
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<tr>
<td>PCB 3043</td>
<td>Ecology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 3063</td>
<td>Genetics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 2210</td>
<td>Organic Chem. I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 2211 &amp; L</td>
<td>Organic Chem. II &amp; lab</td>
<td>5 hrs</td>
</tr>
<tr>
<td>PCB 3023</td>
<td>Molecular Cell Biology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 4683</td>
<td>Population Biology &amp; Evolution</td>
<td>4 hrs</td>
</tr>
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</table>

### 4. Restricted Electives (Suggested) (23 hrs)

The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements.

<table>
<thead>
<tr>
<th>Form/Function</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>BCH 4053</td>
<td>Biochemistry I</td>
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<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>PCB 3063L</td>
<td>Genetics Lab</td>
<td>1 hr</td>
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<td>PCB 4524</td>
<td>Molecular Biology II</td>
<td>3 hrs</td>
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</tr>
<tr>
<td>PCB 3233</td>
<td>Immunology</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>PCB 5XXXC</td>
<td>Human Genetics</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>PCB 4723</td>
<td>Animal Physiology</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>ZOO 3713C</td>
<td>Comparative Vert Anatomy</td>
<td>5 hrs</td>
<td></td>
</tr>
<tr>
<td>ZOO 4603C</td>
<td>Embryology/Development</td>
<td>5 hrs</td>
<td></td>
</tr>
<tr>
<td>ZOO 4753C</td>
<td>Vertebrate Histology</td>
<td>5 hrs</td>
<td></td>
</tr>
</tbody>
</table>

### 5. Departmental Exit Requirements

- A 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 test in biology during their last semester.
- UCF 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 (2) years of one foreign language in high school, or one (1) 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

**Total Semester Hours Required:** 120 hours

**Related Programs:** Biology, Chemistry, Molecular/Microbiology

**Related Minors:** None

**Transfer notes:**
- "D" grades from other institutions do not meet departmental 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 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 2011 or both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 2014, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282
- MAC 2311: may use MAC 2333, MAC 2253 or MAC 2281
- PHY 2048 & 2049: Although Common Program Prerequisites permit substitutions, Organic chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.
CARDIOPULMONARY SCIENCES:
BACHELOR OF SCIENCE

College of Health and Public Affairs
Trailer 534 (407) 823-2214
Undergraduate Program Director: L. Timothy Worrell

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
- 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 CLEP, TSD, or AP 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

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's 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: Approximately 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 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 University, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" in prerequisite and major courses is required for admission to, continuation in, and graduation from the Cardiopulmonary Sciences Program
- UCF Residency Requirement: 34 hours
- 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

   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   Select MAC 1104
   Select STA 2023

   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs
   Select RSC 2010C
   Select CHM 1032 and lab

2. Common Program Prerequisites (16 hrs)
   MAC 1104 College Algebra GEP
   STA 2023 Statistics GEP
   BSC 2010C General Biology GEP
   MCB 2005C Microbiology 4 hrs
   ZOO 3733C Human Anatomy* 4 hrs
   PCB 3703C Human Physiology* 4 hrs
   CHM 1032L Chemistry for Health Sciences or higher level (with lab) 4 hrs
   PHY 2053C College Physics or higher lab (with lab)

* see transfer notes

3. Core Requirements (75 hrs)
   RET 3026C Intro. to Respiratory Care 4 hrs
   RET 3484C Cardiopulmonary Physiology 4 hrs
   HSC 4550 Pathophysiology Mechanics 3 hrs
   APB 4651 Medical Pharmacology I 2 hrs
   HUN 3011 Human Nutrition 3 hrs
   RET 4503 Chest Medicine 3 hrs
   RET 4244 Life Support Systems 3 hrs
   RET 3264C Mechanical Ventilation 3 hrs
   APB 4652 Medical Pharmacology II 2 hrs
   HSA 4700 Intro. to Research in Health Prof. 3 hrs
   RET 4414C Pulmonary Function Studies 4 hrs
   RET 3714 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
   HSC 4008 Professional Development 3 hrs
   RET 4876 Clinical Practice III 8 hrs

4. Upper Division Restricted Electives None

5. Departmental Exit Requirements (127 hrs)
   Cardiopulmonary Sciences GPA requirement 2.5 overall required for admission and graduation.

6. Electives None

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

8. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 32 semester hours in regular courses completed at UCF
   - A maximum of 45 hrs of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

**Total Semester Hours Required** 127 hrs

**Related Programs:** Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Gerontology 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 Cardiopulmonary 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 credentialing process. 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra (MAC 1104) or (higher level)</td>
<td>3</td>
</tr>
<tr>
<td>Statistics (STA 2023) or (higher level)</td>
<td>3</td>
</tr>
<tr>
<td>College Physics I (PHY 1007/L) or (PHY 3004/L) or higher level with labs</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry with Lab (CHM 1031/L) or (higher level)</td>
<td>4</td>
</tr>
<tr>
<td>General Biology with Lab (BSC 1005/L) or (higher level)</td>
<td>4</td>
</tr>
<tr>
<td>General Microbiology (MCB 2010C) or (MCB 2005) or (MCB 2020/L) or (PHA 2751)</td>
<td>4</td>
</tr>
<tr>
<td>Human Anatomy and Physiology I &amp; II (BSC 2093C and 2094C) or (BSC X085 and X086) replaces Anatomy and Physiology courses (ZOO 3733C and PCB 3703C)</td>
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**Four Year Plan of Study**

**Freshman Year**

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<th>Term</th>
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<tr>
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<td>ENC 1101</td>
<td>3</td>
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<tr>
<td></td>
<td>CHM 1032 and lab</td>
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<tr>
<td></td>
<td>BSC 2010C</td>
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<td>MAC 1104</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Summer</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAC 1114</td>
<td>3</td>
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<table>
<thead>
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<tr>
<td>Fall</td>
<td>PHY 2053C</td>
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<td>HSC 2000</td>
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<td></td>
<td>ZOO 3733C</td>
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<td>EUH 2001 or HUM 2230 or AMH 2020</td>
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<tr>
<td></td>
<td>PSY 2013 or ANT, 2003 or SYG 2000</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Summer</strong></td>
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**Sophomore Year**

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<tr>
<td>Fall</td>
<td>PCB 3703C</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SPC 1600C</td>
<td>3</td>
</tr>
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<td></td>
<td>ECO 2013 or POS 2041</td>
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<td>One course: ARH 2050</td>
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<td>THE 1020, REL 2302, 2010, 2010</td>
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<tr>
<td></td>
<td><strong>Summer</strong></td>
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if not satisfied in high school

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<tr>
<td>Fall</td>
<td>RET 3026C</td>
<td>4</td>
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<td>RET 3484C</td>
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<td></td>
<td>HSC 4550C</td>
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<td></td>
<td>APB 4651C</td>
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<td></td>
<td>HUN 3011</td>
<td>3</td>
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<td></td>
<td><strong>Summer</strong></td>
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<td></td>
<td>RET 4414C</td>
<td>4</td>
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<td></td>
<td>RET 3714</td>
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**Senior Year**

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<td>RET 4285</td>
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<tr>
<td></td>
<td>RET 4876C</td>
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<tr>
<td></td>
<td>RET 4715C</td>
<td>3</td>
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<td></td>
<td>RET 4934C</td>
<td>2</td>
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<tr>
<td></td>
<td>RET 4034C</td>
<td>3</td>
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<td></td>
<td><strong>Summer</strong></td>
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</tr>
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<td>16</td>
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</tbody>
</table>

**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 Joint Review Committee for Respiratory Therapy Education in conjunction with CAAHEP of the American Medical Association.
CHEMISTRY: BACHELOR OF SCIENCE

College of Arts and Sciences
Chemistry Department, CH 117, (407) 823-2246
E-mail: chemistry@ucf.edu
Dr. B. Madsen, (407) 823-2230

Admission Requirements None

Degree Requirements
- Departmental Residency Requirement consists of at least 15 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
      Select STA 2023 Statistical Methods I, or CGS 1060C Intro to Computer Sci 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 (24 hrs)
   CHM 2045C* Chem Fund I 4 hrs
   CHM 2046 & L Chem Fund II with lab 4 hrs
   MAC 2311 Calculus w/ Anal Geometry I 4 hrs
   MAC 2312 Calculus w/ Anal Geometry II 4 hrs
   PHY 2048 & L* Physics Engr. & Sci. I & Lab 4 hrs
   PHY 2049 & L* Physics Engr. & Sci. II & Lab 4 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (49 hrs)
   MAC 2313 Calculus w/ Anal Geometry III 4 hrs
   CHM 2210 Organic Chem. I 3 hrs
   CHM 2211 Organic Chem. II 3 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 4912 Undergraduate Research 4 hrs
   CHM 4930 Chemistry Seminar 1 hr
   BSC 2010C General Biology 4 hrs
   Select one of the following 3 hrs
      STA 2023 Statistical Methods I
      CGS 1060 Intro to Computer Science

4. Upper Division Restricted Electives (5 hrs)
   BCH 4053 Biochemistry I 3 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 Molecular Spectroscopy 3 hrs

5. Directed Electives (6 hrs)
   Courses will be selected with the aid of a departmental advisor and approved in advance by the department chair. Courses will be selected from the physical, biological, mathematical sciences and/or related disciplines and normally will include courses at the 3000/4000 level.

6. Departmental Exit Requirements
   - 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 will be required to take a nationally normed test in chemistry during their last semester
   - Computer Competency met by a Computer Science course or by departmental assessment

7. Foreign Language Requirements (0-8 hrs)
   Admission: 2 years high school, or 1 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Forensic Science, Molecular and Microbiology, Science Education

Related Minors: Chemistry, Molecular and Microbiology

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- CHM 2045: 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) or PHY 2048 & Lab and PHY 2049 & Lab are prerequisite courses for subsequent chemistry courses and will still have to be taken.

CIVIL ENGINEERING: BACHELOR OF SCIENCE

College of Engineering
Civil & Environmental Engineering Department (CEE),
ENGR 207B, (407) 823 2841, FAX: (407) 823-3315,
Home Page http://www-cee.engr.ucf.edu
Dr. Manoj Chopra, E-Mail: chopra@mail.ucf.edu

Admission Requirements:
All entering students are required by UCF 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. Each entering student should plan to attend Orientation at the earliest date offered, and must ensure that required transcripts have been submitted to the Admissions Office well in advance of the selected orientation date. Transcripts require processing, and this information must be available to engineering advisors at Orientation to assist students in selecting and registering for appropriate first-semester classes.

Degree Requirements
- The State University System requires most students to complete a minimum of 9 semester hours during summer terms prior to graduation. See the section, Summer Attendance Requirement, elsewhere in this catalog.
- Engineering students are required to complete at least 32 semester hours of regularly-scheduled 3XXX- or 4XXX-level courses specifically in the selected major.
- 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 (min 36 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. Using these substitutions will help the engineering student to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems are encouraged to complete the GEP and the Common Program Prerequisites before transferring.
- Beginning freshman engineering students must complete the UCF GEP for Engineering Students as detailed in paragraphs A. through E. below. Those students who have not completed a college preparatory course of study in high school may be required to complete additional prerequisite courses before taking specific courses shown.
- Students who are transferring to the UCF College of Engineering and who have not completed the general education program at a State of Florida public institution must complete the UCF GEP for Engineering Students as detailed in paragraphs A. through E. below.
- Students who have completed the general education requirements at any of the Florida public institutions have, by law, met the UCF GEP requirements and may begin appropriately enrolling in Common Program Prerequisites and Courses Required for the Major as shown in paragraphs 2. and 3. below.

A. Communication Foundations 9 hrs
  1. Take ENC 1101

2. Common Program Prerequisites (CPR's) (48 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPR courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. NOTE: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements 1.C.1. and 1.E.1., respectively.

CHM 2045/45L Chemistry Fundamentals I with Lab 4 hrs
MAC 2311 Calculus with Analytic Geometry I (MAC 2281 will substitute) 4 hrs
MAC 2312 Calculus with Analytic Geometry II (MAC 2282 will substitute) 4 hrs
MAC 2313 Calculus with Analytic Geometry III (MAC 2283 will substitute) 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
Humanities Courses 6 hrs
Social Science Courses 6 hrs
Humanities or Social Sciences 3 hrs

3. Transferring to the engineering student to minimize excess hours. Students

See the descriptions of these courses in the section, Alphabetical Listing of Courses, later in this catalog.

B. Cultural and Historical Foundations 9 hrs
Engineering students should meet this requirement as it is described in the section, General Education Program, found elsewhere in this catalog.

C. Mathematical Foundations 6 hrs min.
1. Take MAC 2311, Calculus I, (4 hrs) to meet this sub-requirement and the same listed below in 2. Common Program Prerequisites. NOTE: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

- Freshman engineering students who completed advanced algebra and trigonometry in high school, or transferring students who have taken college algebra and trigonometry, satisfy this prerequisite requirement and should begin the calculus sequence their first semester at UCF.
- Students who completed AP calculus in high school can determine their math status from the section, UCF Advanced Placement Program, found elsewhere in this catalog.

2. Take STA 3032 (3 hrs) to complete this sub-requirement and the same requirement listed below in 3. Courses Required for the Major. NOTE: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
1. Engineering students must take ECO 2013 or ECO 2023 to satisfy this sub-requirement.

2. Take ANT 2003, PSY 2013, or SYG 2000. See the course descriptions to assist in making your selection.

E. Science Foundations 6 hrs min.
1. Take PHY 2048/48L, Physics for Engineers and Scientists I with laboratory, (4 hrs) to meet this sub-requirement and the Common Program Prerequisites in 2. below. See the course descriptions.

2. Either GEO 1200 or GEO 3370 is preferred for meeting this requirement. See the course descriptions to assist in making your selection.

List of Courses, later in this catalog.
3. Courses Required for the Major (68 hrs)
The College of Engineering requires all engineering students to achieve a minimum 2.250 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 I, S, or U. NOTE: Course STA 3032 also satisfies GEP requirement 1.C.2. above.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGN 1006 Intro to the Engineering Profession</td>
<td>1 hr</td>
</tr>
<tr>
<td>ENGN 1930 ST: Engineering Concepts &amp; Methods</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 2046 Chemistry Fundamentals II</td>
<td>3 hrs</td>
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<tr>
<td>ENGN 3310 Engineering Analysis - Statics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENGN 3321 Engineering Analysis - Dynamics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENGN 3331 Mechanics of Materials</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENGN 3343 Thermodynamics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENGN 3365 Structure &amp; Properties of Materials</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENGN 3930 ST: Principles of Electrical Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENGN 3613 Engineering Economic Analysis</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ENGN 4624 Engineering Administration</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 3032 Probability &amp; Statistics for Engineers</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CEG 4101C Geotechnical Engineering I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CES 4100 Structural Analysis I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CES 4130L Structures Laboratory</td>
<td>1 hr</td>
</tr>
<tr>
<td>CES 4605 Steel Structures</td>
<td></td>
</tr>
<tr>
<td>CES 4702 Reinforced Concrete Structures</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CWR 3201 Engineering Fluid Mechanics</td>
<td>3 hrs</td>
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<tr>
<td>CWR 4101C Hydraulics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CWR 4203C Hydraulics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENV 4561 Environment Engrg-Process Design</td>
<td>4 hrs</td>
</tr>
<tr>
<td>SUR 2101C Surveying</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TTE 4004 Transportation Engineering</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

Approved Technical Electives 7 hrs

4. 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.

5. Foreign Language Requirements (0-8 hrs)
Admission: 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None.

6. Approved Technical Electives
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.

7. University Minimum Graduation Requirements
- A 2.000 GPA in all work attempted (both UCF and overall).
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 31 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Chemistry, Environmental Engineering, Mathematics.

Related Minors: Chemistry, 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

Civil Engineering - 128 semester hours required

FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>14 hrs</td>
</tr>
<tr>
<td>Spring</td>
<td>14 hrs</td>
</tr>
</tbody>
</table>

- ENCN 1101 English Comp I 3
- ENCN 1102 English Comp II 3
- CHM 2045/L Chem Funds I 4
- CHM 2046 Chemistry Funds II 3
*ECO 2013 Econ I 3
*PHY 2048 Phys for Engr & Sci I 3
*ECO 2023 Economics I, II 4
*MAC 2312 Calc w/ Anal Geom II 4
*MAC 2311 Calc w/ Anal Geom I 4
*PHY 2048L Phys Lab En & Sci I 1

SECOND YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>16 hrs</td>
</tr>
<tr>
<td>Spring</td>
<td>14 hrs</td>
</tr>
</tbody>
</table>

- Cult & Hist Foundations Ia 3
- Cult & Hist Foundations Ia 3
- MAC 2313 Calc w/ Anal Geom III 4
*SPC 1016 Tech Presentations 3
*PHY 2049/L Phys for Eng & Sci II 3
*MAP 2202 Diff Equations 3
*EGN 3310 Engr Anal - Statics 3
*EGN 3321 Engr Anal-Dynamics 3
*EGN 3363 Engr Econ Anal 2
*EGN 3704 Engrm & Envrmnt 2

Summer

- 9 hrs
  - CES 3331 Mechanics of Materials 3
  - EGN 3343 Thermodynamics 3
  - SUR 2101C Surveying 3

THIRD YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<tbody>
<tr>
<td>Fall</td>
<td>16 hrs</td>
</tr>
<tr>
<td>Spring</td>
<td>16 hrs</td>
</tr>
</tbody>
</table>

- Social Foundations 2 3
- Cult & Hist Foundations Ia 3
- ENGN 3930 ST: Prin of Elec Eng 4
- Science Foundations 2 3
- STA 3032 Prob/Stats for Engrs 3
- EGN 3365 Struc & Prop Matls 3
- CES 4100 Structural Analysis I 3
- EGN 4624 Engineering Admin 3
- CWR 3201 Engr Fluid Mechanics 3
- CWR 4203C Hydraulics 3
- CWR 4101C Hydrology 3

FOURTH YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15 hrs</td>
</tr>
<tr>
<td>Spring</td>
<td>14 hrs</td>
</tr>
</tbody>
</table>

- CEG 4101C Geotechnical Engng 4
- EGN 4624 Engineering Admin 3
- CES 4702 Structr Concrete Dsgn 3
- Approved Project Design Course I 3
- Approved Project Design Course II 3
- CES 4605 Structr Steel Design 3
- Approved Technical Electives 5
- ENV 4561 Env Engrm-Process Des 4
- TTE 4004 Transportation Engrng 4

Footnotes:
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 UCF General Education Program elsewhere in this catalog for further information.
2. Students should consult with the Civil and Environmental Engineering Department in ENGR 207 for approved technical electives and approved project design courses, and for the terms when specific courses of these two types are to be offered.
3. 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. Civil engineering students must earn at least 32 hours in residence at UCF.
4. Statistics Requirement

None

3. Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>STA 2023</td>
<td>Statistical Methods I</td>
<td>3 hrs</td>
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<tr>
<td>STA 4163</td>
<td>Statistical Methods II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSA 4701</td>
<td>Introduction to Research in the</td>
<td>6 hrs</td>
</tr>
<tr>
<td></td>
<td>Health Professions</td>
<td></td>
</tr>
</tbody>
</table>

5. Upper Division Restricted Electives

A course at the 3000 or 4000 level related to the Major (e.g., education, psychology, sociology, computer, etc.) selected in consultation with the academic advisor.

6. Departmental Exit Requirements

Students must achieve a grade of “C” in required courses 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 courses (6 credit hours) of health science courses approved by the Department. Suggested Courses: HSC 3593, Aids; HUN 2002, Nutrition, HSC 3531, Medical Terminology; HSC 3110C, Medical Self Assessment; HSA 3122, U.S. Health Care Systems; SPA 3000, Detection of Speech and Hearing Problems.
- ASL (American Sign Language) can only be used for restricted elective or foreign language admission requirement. It does not satisfy B.A. language requirement.
- SPA 3000 can be used for either the restricted elective or the B.S. option
- Students who wish to obtain a Teacher's Certificate for the State of Florida may include the necessary course work as electives. See your academic advisor.

8. Foreign Language Requirements

Admissions: Two (2) years of one foreign language in high school, or one (1) 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.

9. University Minimum Exit Requirements

(120 hrs)

- A “C” GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs of Summer credit (if applicable)

Total Semester Hours Required

120 hours

Related Programs: Health Services Administration, Physical Therapy

Related Minors: Health Services Administration, Psychology

Transfer Notes:

- "D" grades from other institutions do not meet departmental 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.
- Students may take STA 2023 to fulfill the first part of the statistics requirement (STA 2014 will not satisfy this requirement)

Honors

Honors Option Requires:

- Completion of a 3 credit directed readings course
- Completion of a 3 credit thesis course
- Open to students with a 3.5 GPA in Communicative Disorders
Cumulative UCF 3.2 GPA
Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

**Four Year Plan of Study**

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>3</td>
<td>ENC 1102</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041 or ECO 2013</td>
<td>3</td>
<td>PSY 2013 or SYG 2000</td>
<td>3</td>
</tr>
<tr>
<td>PSC 1121 or CHM 1020</td>
<td>3</td>
<td>or ANT 2003</td>
<td></td>
</tr>
<tr>
<td>One Course: ARH 2050,</td>
<td>3</td>
<td>EUH 2000 or HUM 2211</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051, MUL 2010,</td>
<td>or AMH 2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THE 1020, REL 2300,</td>
<td>MGF 1203 or MAC 1104</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHI 2010, LIT 2110, LIT 2120</td>
<td>Elective</td>
<td>3</td>
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</tbody>
</table>

*Plan your required 9 summer hours into your course of study*

**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>12/13/14 hrs</th>
<th>Spring</th>
<th>15/16 hrs</th>
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<tr>
<td>SPC 1600C</td>
<td>3</td>
<td>SPA 3002</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2001 or HUM 2230</td>
<td>3</td>
<td>or AMH 2020</td>
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<tr>
<td>BSC 1020C or BSC 1030</td>
<td>3/4</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>or GLY 1030 or GEO 1200</td>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or BOT 1000C or ANT 2511</td>
<td>Foreign Lang II (B.A.)</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>Foreign Lang. 1 (B.A.)</td>
<td>3/4</td>
<td>or Health Sciences (B.S.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>6 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSA 4701**</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>If Gen. Ed. has not been met, take:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STA 2023</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STA 4163</td>
<td>3</td>
<td></td>
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</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>11/14 hrs</th>
<th>Spring</th>
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<tr>
<td>LIN 4710C</td>
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<td>SPA 3550C</td>
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</tr>
<tr>
<td>SPA 3112C</td>
<td>4</td>
<td>SPA 4032</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3101</td>
<td>3</td>
<td>SPA 4201C</td>
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<tr>
<td>Elective (if needed)</td>
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<td>Elective</td>
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**Senior Year**

<table>
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<tr>
<td>SPA 4011</td>
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<td>SPA 4251C</td>
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<tr>
<td>SPA 4402C</td>
<td>4</td>
<td>SPA 4321</td>
<td>4</td>
</tr>
<tr>
<td>SPA 3050</td>
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<td>SPA 4130</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4556</td>
<td>3</td>
<td>SPA 4310</td>
<td>3</td>
</tr>
<tr>
<td>Elective (if needed)</td>
<td>(3)</td>
<td>SPA 3050</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minor:**
The Department of Communicative Disorders offers a minor consisting of a minimum of 25 semester hours. Required courses:
LIN 4710C; SPA 3002, 3101, 3112C, 4032, 4251, 4251L, and 4402.

Licensed Speech Language and Audiology Assistant:
This new state license may be obtained by completing our minor plus one additional course as recommended by the academic advisor.
COMPUTER ENGINEERING:
BACHELOR OF SCIENCE

College of Engineering
Electrical & Computer Engineering Department,
ENGR 407C, (407) 823-2786, FAX: (407) 823-5835,
Home Page http://www.ece.eegr.ucf.edu
Dr. C. S. Bauer, Jr., E-Mail: bauer@mail.ucf.edu

Admission Requirements:
All entering students are required by UCF 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. Each entering student should plan to attend Orientation at the earliest date offered, and must ensure that required transcripts have been submitted to the Admissions Office well in advance of the selected orientation date. Transcripts require processing, and this information must be available to engineering advisors at Orientation to assist students in selecting and registering for appropriate first-semester classes.

Degree Requirements
- The State University System requires most students to complete a minimum of 9 semester hours during summer terms prior to graduation. See the section, Summer Attendance Requirement, elsewhere in this catalog.
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1. UCF General Education Program for Engineering Students (min 36 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. Using these substitutions will help the engineering student to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems are encouraged to complete the GEP and the Common Program Prerequisites before transferring.
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- Students who are transferring to the UCF College of Engineering and who have not completed the general education program at a State of Florida public institution must complete the UCF GEP for Engineering Students as detailed in paragraphs A. through E. below.
- Students who have completed the general education requirements at any of the Florida public institutions have, by law, met the UCF GEP requirements and may begin appropriately enrolling in Common Program Prerequisites and Courses Required for the Major as shown in paragraphs 2. and 3. below.

A. Communication Foundations 9 hrs
1. Take ENC 1101

2. Take ENC 1102
3. SPC 1016 is the preferred substitute for SPC 1600C for engineering students.
See the descriptions of these courses in the section, Alphabetical Listing of Courses, later in this catalog.

B. Cultural and Historical Foundations 9 hrs
Engineering students must meet this requirement as it is described in the section, General Education Program, found elsewhere in this catalog.

C. Mathematical Foundations 6 hrs min.
1. Take MAC 2311, Calculus I, (4 hrs) to meet this sub-requirement and the same listed below in 2. Common Program Prerequisites. NOTE: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
- Freshmen engineering students who completed advanced algebra and trigonometry in high school, or transferring students who have taken college algebra and trigonometry, satisfy this prerequisite requirement and should begin the calculus sequence their first semester at UCF.
- Students who completed AP calculus in high school can determine their math status from the section, UCF Advanced Placement Program, found elsewhere in this catalog.

2. Take STA 3023 (3 hrs) to complete this sub-requirement and the same requirement listed below in 3. Courses Required for the Major. NOTE: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
1. Engineering students must take ECO 2033 or ECO 2023 to satisfy this sub-requirement.
2. Take ANT 2003, PSY 2013, or SYG 2000. See the course descriptions to assist in making your selection.

E. Science Foundations 6 hrs min.
1. Take PHY 2048/48L, Physics for Engineers and Scientists I with laboratory, (4 hrs) to meet this sub-requirement and the Common Program Prerequisites in 2. below. See the course descriptions.
2. Either GEO 1200 or GEO 3370 is preferred for meeting this requirement. See the course descriptions to assist in making your selection.

2. Common Program Prerequisites (CPR’s) (48 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPR courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. NOTE: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements 1.C.L. and 1.E.L., respectively.

CHS 1440 Fundamentals of Chemistry for Eng 4 hrs
(CHM 2045/45L will substitute)
MAC 2311 Calculus with Analytic Geometry I 4 hrs
(MAC 2281 will substitute)
MAC 2312 Calculus with Analytic Geometry II 4 hrs
(MAC 2282 will substitute)
MAC 2313 Calculus with Analytic Geometry III 4 hrs
(MAC 2283 will substitute)

MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I 3 hrs

Social Science Courses 6 hrs
Humanities or Social Sciences 3 hrs
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

**Computer Engineering - 128 semester hours required**

**FIRST YEAR**

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<th>Fall</th>
<th>16 hrs</th>
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<td>Cult &amp; Hist Foundations 1a</td>
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<td>ENC 1102 English Comp II</td>
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<td>EGN 3210 Engr Anal &amp; Comp</td>
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<tr>
<td>14 hrs</td>
<td>14 hrs</td>
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<tr>
<td>PHY 1401 Engineering Data Structures</td>
<td>4</td>
<td>MAC 2312 Calc &amp; Anal Geom II</td>
<td>4</td>
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<tr>
<td>15 hrs</td>
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<td>ECO 2048/L Physics for Eng/Sci</td>
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<td>3</td>
<td>ECO 2023 Prin of Econ I</td>
<td>3</td>
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<tr>
<td>16 hrs</td>
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<tr>
<td>EEL 3310 Electrical Circuits &amp; Systems</td>
<td>3</td>
<td>MAC 2311 Calc &amp; Anal Geom I</td>
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<tr>
<td>16 hrs</td>
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<td>EEL 3351 Laboratory Systems</td>
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<td></td>
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<tr>
<td>EEL 3380 Intro to Computer Engineering</td>
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<tr>
<td>15 hrs</td>
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<td>1. Transfer and External Credit: Students should check with the Department of Electrical and Computer Engineering for approved technical electives and for the terms when specific courses of this type are to be offered.</td>
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**SECOND YEAR**

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<td>MAP 2303 Diff Equations</td>
<td>3</td>
<td>EGG 3321 Eng Anal &amp; Dynamics</td>
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<tr>
<td>PHY 2049 Physics Eng/Sci II</td>
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<td>PHY 2049L Lab En/Sci II</td>
<td>3</td>
<td>EGG 3358 Thermo-Fluids Heat Transfer</td>
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<tr>
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<td>EGG 3310 Engr Anal Statics</td>
<td>3</td>
<td>ENR 3337 Principles of Elec Engr</td>
<td>4</td>
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<tr>
<td>15 hrs</td>
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<td>STA 3032 Probability &amp; Statistics for Engineers</td>
<td>3</td>
<td>OME 1401 Computer Engineering</td>
<td>4</td>
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<td>2. Transfer and External Credit: Students should check with the Department of Electrical and Computer Engineering for approved technical electives and for the terms when specific courses of this type are to be offered.</td>
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**THIRD YEAR**

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<td>EEL 3307C Electrical Circuits &amp; Systems</td>
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<td>EEL 3322C Electrical Networks</td>
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<td>EEL 3357 Linear Control Systems</td>
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<td>17 hrs</td>
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<tr>
<td>EEL 4882 Engineering System Software</td>
<td>3</td>
<td>EEL 4851C Engineering Data Structures</td>
<td>4</td>
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<tr>
<td>17 hrs</td>
<td>17 hrs</td>
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<tr>
<td>EEL 4884C Engineering Software Design</td>
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<td></td>
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<tr>
<td>17 hrs</td>
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**FOURTH YEAR**

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<td>Cult &amp; Hist Foundations 2</td>
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<td>EEL 4768C Cmp Sys Design I</td>
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<td>EEL 4915C Senior Design II</td>
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<tr>
<td>EEL 4844C Engr S/W Design</td>
<td>4</td>
<td>EEL 4870C Advanced Engineering Electives</td>
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<tr>
<td>12 hrs</td>
<td>12 hrs</td>
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<td></td>
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<td>EEL 4914 Senior Design II</td>
<td>3</td>
<td>EEL 4882 Advanced Engineering Electives</td>
<td>3</td>
</tr>
<tr>
<td>12 hrs</td>
<td>12 hrs</td>
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</tr>
<tr>
<td>4. Transfer and External Credit: Students should check with the Department of Electrical and Computer Engineering for approved technical electives and for the terms when specific courses of this type are to be offered.</td>
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Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult with the ECE Department in ENGR 407 for 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.
3. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
4. Computer engineering students must earn at least 24 hours in residence at UCF.
COMPUTER SCIENCE: BACHELOR OF SCIENCE

College of Arts and Sciences
School of Computer Science, CSB 201
E-mail: computerscience@ucf.edu
Dr. U. B. Vemulapati, Undergraduate Coordinator, (407) 823-2341

Foundation Examination
Prior to taking courses beyond basic core requirements, students must pass a foundation exam (COT 3961) which covers problem solving techniques, algorithms, abstraction, proofs, and language skills. Tests will be administered each semester.

Degree Requirements
- Students must earn at least a "C" in each course in 2-6
- Students should consult with a departmental advisor
- Students must request a review of graduation requirements at the time of filing intent-to-graduate
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from the UCF School of Computer Science
- 18 of the 24 Residency hours must be at the 4000-5000 level
- Courses designated in 1 (General Education Program), 2 (Common Program Prerequisites), and most of 3 (Basic Core Requirement) may be 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 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 BSC 2010C General Biology
      4 hrs

2. Common Program Prerequisites (25 hrs)
   COP XXXX* Computer Language
   3 hrs
   *Majors are expected to be proficient in a variety of programming languages, including Pascal. Students who are proficient in a language may substitute any 4000-5000 level Computer Science course with department approval.
   MAC 2311 Calculus with Analytic Geom I
   4 hrs
   MAC 2312 Calculus with Analytic Geom II
   4 hrs
   PHY 2048 & L Physics for Engr. & Sci. I & Lab
   4 hrs
   PHY 2049 & L Physics for Engr. & Sci. II & Lab
   4 hrs
   Select two science courses designed for majors*
   6 hrs
      BSC 2010C General Biology
      BSC 2011C Biological Diversity
      CHM 2045 Chem. Fund I
      3 hrs
      CHM 2046 Chem. Fund II
      3 hrs
   *See Transfer Notes for possible substitutes

3. Basic Core requirements (18 hrs)
   COP 3502C Computer Science I
   3 hrs
   COP 3503C Computer Science II
   3 hrs
   STA 2023 Statistical Methods I
   3 hrs
   ENC 3241 Technical Report Writing
   3 hrs
   CDA 3103C Computer Organization
   3 hrs
   COT 3100C Intro to Discrete Structures
   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 the School of Computer Science.
   - At most 3 hours of independent study are allowed.
   - 4000-5000 level mathematics or statistics courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106.
     No independent study hours or internship hours are allowed.

7. School Exit Requirements
   - Complete an exit interview with assigned faculty advisor
   - Computer Competency met by completion of major

8. Foreign Language Requirements (0-8 hrs)
   Admission: 2 years high school, or 1 year college language (or equivalent proficiency exam) prior to graduation.
   Graduation: One year or equivalent proficiency exam. With prior School approval, cultural/multicultural courses may be used.

9. Electives (variable)
   Select primarily from upper level courses, with School advisor's approval. May be outside of the department.

10. University Minimum Exit Requirements
    - A "C" GPA (2.0) in all work attempted (both UCF and overall)
    - 60 semester hours earned after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 semester hours in regular courses completed at UCF
    - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
    - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Computer Engineering, Management Information Systems

Related Minors: Applied Computer Science, Computer Science

Transfer notes:
- "D" grades do not meet School 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 common program prerequisites if taken prior to transferring to UCF:
- COP XXXX*: may use any introductory programming in Ada, C, C++, Pascal or equivalent language.
- Science Courses: may use any two science courses designed for majors. Only 6 credits are needed to meet this requirement if taken as part of the AA transfer work.
CRIMINAL JUSTICE: BACHELOR OF SCIENCE

College of Health and Public Affairs
HB 113 (407) 823-2603
Undergraduate Program Coordinator: Joseph Sanborn

Admission Requirements None

Degree Requirements
- 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 2.0 GPA in the core requirements and the restricted electives.
- 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
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
   - Select MGF 1203
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites None

3. Core Requirements (21 hrs)
   - CCJ 3024 Criminal Justice System 3 hrs
   - CCJ 3014 Crime in America 3 hrs
   - CCJ 3290 Prosecution and Adjudication 3 hrs
   - CCJ 3306 Corrections and Penology 3 hrs
   - CCJ 4105 Police and Society 3 hrs
   - CCJ 4701 Research Methods in Criminal Justice 3 hrs
   - ENC 3210 Writing for Business Professions 3 hrs
     (criminal justice section only)

4. Upper Division Restricted Electives (36 hrs)
   a. 21 additional semester hours of upper division CCJ course work. Seniors can satisfy up to 6 hrs of this requirement with internship and up to 6 hrs with directed independent study; however, the combination of these non-class options shall not exceed 9 hrs. Program standards must be met to be eligible for either internships or independent study credit.
   b. 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 30 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements
   Admission: 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

8. University Minimum Exit Requirements
   - A “C” GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs 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" grades from other institutions do not meet departmental requirements.

Honors
Honors Option Requires:
- Completion of a 3 credit directed readings course
- Completion of a 3 credit thesis course
- Open to students with a 3.5 GPA in Criminal Justice
- Cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Four Year Plan of Study

Freshman Year* 15 hrs Spring 15 hrs
Fall 15 hrs Freshman Year*
ENC 1101 3 ENC 1102 3
MGF 1203 3 CGS 1060C or STA 2014 3
POS 2041 or ECO 2013 3 PSY 2013 or SYG 2000 3
PSC 1121 or CHM 1020 3 or ANT 2003
One course: ARH 2050 3 EUH 2000 or HUM 2211 3
ARH 2051, MUL 2010 3 or AMH 2010
THE 1020, REL 2300 3 Elective 3
PHI 2010, LIT 2110, LIT 2120 3
*Plan your required 9 summer hours into your course of study

Sophomore Year 12/13 hrs Spring 15 hrs
Fall 12/13 hrs Sophomore Year
SPC 1600C 3 CCJ 3024 3
EUAH 2001 or HUM 2230 3 CCJ 3014 3
or AMH 2020 3 Supporting Elective 3
BSC 1020 or BSC 1030 3-4 CCJ Elective 3
or GLY 1030 or GEO 1200 3
or BOT 1000 or ANT 2511
Elective 3

Summer 8 hrs
(Foreign Lang I) 4
(Foreign Lang II) 4
if not satisfied in high school

Junior Year 15 hrs
Fall 15 hrs Junior Year
CCJ 3290 3 CCJ 4105 3
CCJ 3306 3 CCJ 4701 3

163
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**Senior Year**

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EARLY CHILDHOOD EDUCATION (PRE-KINDERGARTEN THROUGH GRADE 3): BACHELOR OF SCIENCE

College of Education
Instructional Programs, ED346, (407) 823-2939
Coordinator: Dr. Elaine Clifford

Admission Requirements:
- have on file in the University admissions office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University admissions office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- complete a formal application for admission. Deadlines: June 30th for the Fall Semester; October 15th for the Spring Semester.
- be recommended by the faculty of the department of the student’s major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program* (36 hrs)
   A. Communication Foundations
      - Select *SPC 1600C Fundamentals of Oral Comm
      - Select ENC 1101 Composition I
      - Select ENC 1102 Composition II
   B. Cultural-Historical Foundations
      - Select One 2 semester sequence: EUII 2050, 2051; MUL 2010; THE 1020; REL 2300; PHI 2010; LIT 2110; LIT 2120
   C. Mathematical Foundations
      - Select *MAC 1104 College Algebra or *MGF 1103 Finite Math
      - Select COS 1080C Intro Comp Sci or STA 2014 Statistical Math
   D. Social Foundations
      - Select *PSY 2013 Gen Psychology or *SYG 2000 ECO 2013 Princ of Economics or POS 2041 Amer Nat Gov’t
   E. Science Foundations**
      - Select PSC 1121 Physical Science
      - Select BSC 1020 Biological Principles
   * College Preprofessional Requirements.
   At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.
   ** The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites (9 hrs)
   - EDF 2005 Intro to Education 3 hrs
   - *EDG 2701 Teaching Diverse Populations 3 hrs
   - EME 1040 Intro to Technology 3 hrs

*In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for his/her lower division course work. (These courses must be identified in the college/university catalog.)
* 15 hours are required BEYOND those taken to meet General Education requirements and must be from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences; and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirement, two courses in the natural sciences. A course in Human Growth and Development can substitute for psychology.

3. Preprofessional Requirements
   * See General Education Program
   - SPC 1600C Fundamentals of Oral Comm
   - PSY 2013 Gen Psychology or
   - SYG 2000 General Sociology
   - MAC 1104 College Algebra or
   - MGF 1203 Finite Math

4. Specific Program Prerequisites (6 hrs)
   - ARE 2011 Art & Creativity in Early Childhood Ed 3 hrs
   - MUE 2210 Music & Movement in Early Childhood 3 hrs

5. Block I (16 hrs)
   - EDF 3740 Found. of Erly Childhood Ed 3 hrs
   - EDF 3120 Observing Child Growth & Develop 3 hrs
   - EEC 4402 Cultural and Family Systems 3 hrs
   - EEC 3268 Play Development 3 hrs
   - EEC 4731 Health, Safety, & Nutrition 3 hrs
   - EEC 3940 Integration/Internship 1 hr

6. Block II (16 hrs)
   - EDF 3214 Erly Chldhd Ed Lrng Environ 3 hrs
   - EEC 3610 Social & Emotional Development 3 hrs
   - EEX 3450 Young Children w/Special Needs 3 hrs
   - EFX 4751 Parent Involvement 3 hrs
   - RED 3310 Emergent Literacy 3 hrs
   - EEC 3940 Integration/Internship 1 hr

7. Block III (16 hrs)
   - RED 4311 Development of Literacy 3 hrs
   - SCE 4023 Tch Sci & Technology EEC 3 hrs
   - MAE 4300 Exploring Math EEC 3 hrs
   - EEC 4603 Guidance of Young Children 3 hrs
   - EEC 3613 Observ & Asmt of Young People 3 hrs
   - EEC 3940 Integration/Internship 1 hr

8. Block IV (12 hrs)
   - EEC 4943 ECE Student Teaching 12 hrs

The student must have a grade of “C” or better in each specialization course and must have taken all methods courses prior to enrolling in Student Teaching.

A student must have completed the portfolio process for Satisfactorily before Student Teaching.

9. Foreign Language Requirements (0-6 hrs)
   State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign
language in high school)

10. Electives (w/advisor's approval)  (variable)

11. Departmental Exit Requirements:
   Achieve a 2.5 GPA in all courses within the major

12. University Minimum Exit Requirements
   - A 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 semester hours in regular courses completed at UCF
   - Complete the General Education Program, the Gordon Rule, the
     CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required  120 hours

Transfer notes:
Courses taken at community colleges do not substitute for Upper
Division courses. Transfer courses are not accepted for this
program.
# ECONOMICS: BACHELOR OF ARTS

**College of Arts and Sciences**  
Political Science Department, FA 415, (407) 823-2608  
E-mail: politics@ucf.edu  
Dr. R. Bledsoe, (407) 823-2608

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 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)

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>STA 2004 Statistical Reasoning</td>
<td>6 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>Select MAC 1104 College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>Select STA 2014 Principles of Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>Select ECO 2013 Prin of Economics I or ANT 2003</td>
<td>3 hrs</td>
</tr>
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</table>

### 2. Common Program Prerequisites (6 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2013*</td>
<td>Principles of Economics I</td>
</tr>
<tr>
<td>ECO 2023*</td>
<td>Principles of Economics II</td>
</tr>
</tbody>
</table>
*See Transfer Notes for possible substitutes

### 3. Core requirements (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 3101</td>
<td>Intermediate Price Theory</td>
</tr>
<tr>
<td>ECO 3203</td>
<td>Aggrer Eco Conditions Anal</td>
</tr>
<tr>
<td>ECO 3401</td>
<td>Quantitative Business Tools I</td>
</tr>
<tr>
<td>ECO 3411</td>
<td>Quantitative Business Tools II</td>
</tr>
<tr>
<td>ECO 4451</td>
<td>Research Methods in Economics</td>
</tr>
</tbody>
</table>

### 4. Upper Division Restricted Electives (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 3703</td>
<td>International Economics</td>
</tr>
<tr>
<td>ECS 3723</td>
<td>International Commercial Policy</td>
</tr>
<tr>
<td>ECS 4003</td>
<td>Comparative Economic Syst</td>
</tr>
<tr>
<td>ECS 4013</td>
<td>Ecp Development</td>
</tr>
<tr>
<td>ECS 4231*</td>
<td>Japanese Prosperity</td>
</tr>
<tr>
<td>ECS 4303</td>
<td>Eco of European Integration</td>
</tr>
<tr>
<td>ECS 4203</td>
<td>Economics of the Pacific Rim</td>
</tr>
<tr>
<td>ECS 4941*</td>
<td>Economics Internship</td>
</tr>
</tbody>
</table>
* Requires departmental 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.

### 9. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:**
- "D" grades from other institutions do not meet departmental 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
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: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

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
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
      Select MAC 1104 College Algebra
      Select CGS 2100C Computer Fundamentals for Bus
   D. Social Foundations
      Select ECO 2013 Principles of Economics I or ECO 2023 Principles of Economics II
      Select one: PST 2013, SYG 2000, ANT 2003
   E. Science Foundation

2. Common Program Prerequisites
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Principles of Macroeconomics
   ECO 2023 Principles of Microeconomics
   MAC 2233 Concepts of Calculus
   STA 2023 (or QMB 2100) Statistics
   ** 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" or better must take ECO 3401.

3. Common Body of Knowledge (33 hrs)
   First Semester in the College of Business Administration:
   ** Students must demonstrate competency in micro-computer applications during their first semester in College of Business Administration courses. Students who fail to demonstrate competency will not be permitted to continue enrollment in the business program.
   GEB 3031 Cornerstone
   ECO 3401 Quantitative Business Tools I
   First or subsequent semesters depending on major:
   BUL 3130 Legal & Ethical Environments of Business
   ECO 3411 Quantitative Business Tools II
   FIN 3403 Business Finance
   MAN 3025 Management of Organizations
   MAN 3504 Quality and Productivity Management
   MAR 3023 Marketing
   Last Semester:
   GEB 4361 Business in the Internat'1 Environment
   MAN 4720 Strategic Management

4. Special College and/or Departmental Requirements
   - Within the College of Business Administration the first day of class is mandatory. Final exams will be given during Exam Week.
   - A transfer student to this program must take a minimum of twelve (12) semester hours in economics at UCF.
   - Students not in attendance at the first meeting of any College of Business course may be dropped from the course. 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.

5. Required Major Courses (9 hrs)
   ECO 3101 Intermediate Price Theory
   ECO 3203 Aggregate Economic Conditions Analysis
   ECO 4451 Research Methods in Economics

6. Upper Division Restricted Electives (15 hrs)
   All economics majors will be required to take five (5) electives by choosing one of the following three options:
   A. Standard Option - Select any five (5) 3000-4000 level economics courses other than the three required above.
   B. International Option - Select any five (5) courses from the following list:
      ECO 3703 International Economics
      ECO 3723 International Commercial Policy
      ECS 4003 Comparative Economic Systems
      ECS 4013 Economic Development
      * ECS 4231H Japanese Prosperity: A Study of Human Resource Development
      * ECS 4203 The Economies of the Pacific Rim
      ECS 4303 Economics of European Integration
      * ECO 4941 Economics Internship
      * Requires special approval
   C. Multi-Disciplinary Option - Select any three (3) economic courses from the standard option of restricted electives PLUS any two (2) 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. Foreign Language Requirements (0-8 hrs)
   Admission: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

8. University Minimum Exit Requirements
   - A 2.000 GPA in all work attempted (Overall, UCF, COB, Major)
   - 60 semester hours earned after any CLEP award
   - 48 semester 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)

9. Electives:
   As needed 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 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.
- 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

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101*</td>
<td>3</td>
<td>ENC 1102*</td>
<td>3</td>
</tr>
<tr>
<td>Cult-Hist I*</td>
<td>3</td>
<td>Cult-Hist II*</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600C</td>
<td>3</td>
<td>Art/Music/Lit</td>
<td>3</td>
</tr>
<tr>
<td>***Elective</td>
<td>3</td>
<td>MAC 1104*</td>
<td>3</td>
</tr>
<tr>
<td>***Elective</td>
<td>3</td>
<td>CGS 2100C</td>
<td>3</td>
</tr>
</tbody>
</table>

*Must complete 9 hours in a summer semester*

### Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2013*</td>
<td>3</td>
<td>ECO 2023*</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2021*</td>
<td>3</td>
<td>ACG 2071*</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Psy/Soc/Ant</td>
<td>3</td>
<td>***Elective</td>
<td>3</td>
</tr>
<tr>
<td>***Elective</td>
<td>3</td>
<td>***Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

*"C" or better grade required in each class*

*Must complete CLAST requirement*

*Transfer students must complete a minimum of twelve (12) hours in Economics at UCF*

### Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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</thead>
<tbody>
<tr>
<td><strong>GEB 3031</strong></td>
<td>6</td>
<td>ECO 3411</td>
<td>3</td>
</tr>
<tr>
<td>ECO 3401</td>
<td>3</td>
<td>MAN 3025</td>
<td>3</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>3</td>
<td>ECO 3203</td>
<td>3</td>
</tr>
<tr>
<td>ECO 3101</td>
<td>3</td>
<td>FIN 3403</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECO Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Pass Computer Competency Exam in same term Cornerstone completed**

### Senior
ELECTRICAL ENGINEERING:
BACHELOR OF SCIENCE

College of Engineering
Electrical & Computer Engineering Department,
ENGR 408, (407) 823-2786, FAX: (407) 823-5835,
Home Page: http://www-ece.engr.ucf.edu
Dr. I. E. Batarseh, E-Mail: batarseh@mail.ucf.edu

Admission Requirements:
All entering students are required by UCF 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. Each entering student should plan to attend Orientation at the earliest date offered, and must ensure that required transcripts have been submitted to the Admissions Office well in advance of the selected orientation date. Transcripts require processing, and this information must be available to engineering advisors at Orientation to assist students in selecting and registering for appropriate first-semester classes.

Degree Requirements
- The State University System requires most students to complete a minimum of 9 semester hours during summer terms prior to graduation. See the section, Summer Attendance Requirement, elsewhere in this catalog.
- Engineering students are required to complete at least 32 semester hours of regularly-scheduled 3XXX- or 4XXX-level courses specifically in the selected major.
- 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
   (min 36 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. Using these substitutions will help the engineering student to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems are encouraged to complete the GEP and the Common Program Prerequisites before transferring.
- Beginning freshman engineering students must complete the UCF GEP for Engineering Students as detailed in paragraphs A. through E. below. Those students who have not completed a college preparatory course of study in high school may be required to complete additional prerequisite courses before taking specific courses shown.
- Students who are transferring to the UCF College of Engineering and who have not completed the general education program at a State of Florida public institution must complete the UCF GEP for Engineering Students as detailed in paragraphs A. through E. below.
- Students who have completed the general education requirements at any of the Florida public institutions have, by law, met the UCF GEP requirements and may begin appropriately enrolling in Common Program Prerequisites and Courses Required for the Major as shown in paragraphs 2. and 3. below.

A. Communication Foundations

1. Take ENC 1101
2. Take ENC 1102
3. SPC 1016 is the preferred substitute for SPC 1600C for engineering students.

See the descriptions of these courses in the section, Alphabetical Listing of Courses, later in this catalog.

B. Cultural and Historical Foundations
   9 hrs
   Engineering students should meet this requirement as it is described in the section, General Education Program, found elsewhere in this catalog.

C. Mathematical Foundations
   6 hrs min.
1. Take MAC 2311, Calculus I, (4 hrs) to meet this sub-requirement and the same listed below in 2. Common Program Prerequisites. NOTE: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
   - Freshman engineering students who completed advanced algebra and trigonometry in high school, or transferring students who have taken college algebra and trigonometry, satisfy this prerequisite requirement and should begin the calculus sequence their first semester at UCF.
   - Students who completed AP calculus in high school can determine their math status from the section, UCF Advanced Placement Program, found elsewhere in this catalog.
2. Take STA 3023 (3 hrs) to complete this sub-requirement and the same requirement listed below in 3. Courses Required for the Major. NOTE: Calculus II is the prerequisite for this course.

D. Social Foundations
   6 hrs
1. Engineering students must take ECO 2013 or ECO 2023 to satisfy this sub-requirement.
2. Take ANT 2003, PSY 2013, or SYG 2000. See the course descriptions to assist in making your selection.

E. Science Foundations
   6 hrs min.
1. Take PHY 2048/48L, Physics for Engineers and Scientists I with laboratory, (4 hrs) to meet this sub-requirement and the Common Program Prerequisites in 2. below. See the course descriptions.
2. Either GEO 1200 or GEO 3370 is preferred for meeting this requirement. See the course descriptions to assist in making your selection.

2. Common Program Prerequisites (CPR's)
   (48 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPR courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. NOTE: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements 1.C.L. and 1.E.L., respectively.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 1440</td>
<td>Fundamentals of Chemistry for Eng</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analytic Geometry II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus with Analytic Geometry III</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2048/48L</td>
<td>Physics for Engineers &amp; Scientists I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PHY 2049/49L</td>
<td>Physics for Engineers &amp; Scientists II</td>
<td>4 hrs</td>
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<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Humanities Courses</td>
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<td>6 hrs</td>
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<tr>
<td>Social Science Courses</td>
<td></td>
<td>6 hrs</td>
</tr>
<tr>
<td>Humanities or Social Sciences</td>
<td></td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
3. Courses Required for the Major (68 hrs)
The College of Engineering requires all engineering students to achieve a minimum 2.250 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 I, S, or U. **NOTE:** Course STA 3023 also satisfies GEP requirement 1.C.2. above.

- EGN 1006 Intro to the Engineering Profession 1 hr
- EGN 1930 ST: Engineering Concepts & Methods 1 hr
- EGN 3310 Engineering Analysis - Statics 3 hrs
- EGN 3321 Engineering Analysis - Dynamics or EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs
- EGN 3373 Principles of Electrical Engineering 4 hrs
- EGN 3420 Engineering Analysis 3 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- PHY 3101 Physics for Engineers & Scientists III 3 hrs
- EEL 3122C Electrical Networks 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 3347 Electromagnetic Fields 3 hrs
- EEL 3352C Signal Analysis and Communications 4 hrs
- EEL 3357 Linear Control Systems 3 hrs
- EEL 3381C 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
- Approved Technical Electives 9 hrs

4. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EAS 4915L Senior Design II 3 hrs
- COE encourages all engineering students to take the Engineering Intern Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)
**Admission:** 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** None.

6. Approved Technical Electives
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.

7. University Minimum Graduation Requirements
- A 2.000 GPA in all work attempted (both UCF and overall).
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 31 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

**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**

**Electrical Engineering - 128 semester hours required**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>17 hrs</th>
<th>Spring</th>
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<tbody>
<tr>
<td>*Cult &amp; Hist Foundations Ia</td>
<td>3</td>
<td>*Cult &amp; Hist Foundations Ib</td>
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<tr>
<td>*ENC 1101 English Comp I</td>
<td>3</td>
<td>*ENC 1102 English Comp II</td>
<td>3</td>
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<td>*CHS 1440 Chem Eng 4 Engrs</td>
<td>4</td>
<td>*SPE 1016 Tech Presentations</td>
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<tr>
<td>*ECO 2013</td>
<td>3</td>
<td>*MAC 2312 Calc w/Anal</td>
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<tr>
<td>ECO 2023 Prin of Econ I, II</td>
<td>3</td>
<td>*PHY 2048/L Phys for Eng/Sci I</td>
<td>4</td>
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<tr>
<td>*MAC 2311 Calc w/Anal Geom I</td>
<td>4</td>
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**Summer**

<table>
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<th>11 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Social Foundations</td>
</tr>
<tr>
<td>*MAC 2313 Calc &amp; Anal Geom III</td>
</tr>
<tr>
<td>*PHY 2049R Phy for Engrs Sci II</td>
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<tr>
<td>*PHY 2049R Phy for Eng/Sci II</td>
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**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
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<tbody>
<tr>
<td>*MAP 2302 Diff Equations</td>
<td>3</td>
<td>*Cult &amp; Hist Foundations</td>
<td>3</td>
</tr>
<tr>
<td>*PHY 2101 Phys for Engr/Sci III</td>
<td>3</td>
<td>EGN 3321 Engr Anal-Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>*Science Foundations</td>
<td>3</td>
<td>EGN 3358 Ther-Flds-Ht Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3310 Engr Anal-Statics</td>
<td>3</td>
<td>EGN 3373 Prin of Elec Engr</td>
<td>4</td>
</tr>
<tr>
<td>EGN 3420 Engineering Analysis</td>
<td>3</td>
<td>EEL 3342C Intro to Dig Circ/Sys</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3358 Ther-Flds-Ht Transfer</td>
<td>3</td>
<td>EEL 3810C Intro to Cmptr Engr</td>
<td>3</td>
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**THIRD YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
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<td>EEL 3307C Electronics I</td>
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<td>STA 3032 Prob &amp; Stats for Engrs</td>
<td>3</td>
<td>EEL 3657 Linear Control Sys</td>
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<td>EEL 3122C Electrical Networks</td>
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<td>EEL 3552C Sig Anal &amp; Comm</td>
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<td>EEL 4767C Crmpt Sys Design I</td>
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<td>EEL 4750 Dig Signal Proc Fund</td>
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**FOURTH YEAR**

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<td>EEL 3470 Electromagnetic Fields</td>
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<td>EEL 4309C Electronics II</td>
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<td>Approved Technical Elective</td>
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<tr>
<td>EEL 4914 Senior Design I</td>
<td>3</td>
<td>EEL 4915C Senior Design II</td>
<td>3</td>
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</table>

**Notes:**
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult with the Electrical and Computer Engineering Department in ENGR 407 for 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.
3. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
4. Electrical engineering students must earn at least 32 hours in residence at UCF.
5. Assumes a knowledge of a higher level programming language (C preferred).
ELECTRICAL ENGINEERING TECHNOLOGY - ELECTRICAL SYSTEMS CONCENTRATION: BACHELOR OF SCIENCE

College of Engineering
Engineering Technology (ENT) Department
UCF Research Pavilion Building, Suite 493
12424 Research Park Parkway
Orlando, FL 32826
Ms. Rosida Coowar
(407) 384-2151 FAX: (407) 384-2157
E-mail: rcoowar@ucfvm.cc.ucf.edu

Admission Requirements: None

Degree Requirements

1. UCF General Education Program (24 hrs)
   A. Communication Foundations
      If possible, engineering technology students should take SPC 1016 instead of SPC 1600C. See course descriptions.
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
      Requirement moved to Engineering Tech Core
   D. Social Foundations
      Requirement moved to Engineering Tech Core
   E. Science Foundations
      Requirement moved to Engineering Tech Core

2. Common Program Prerequisites (10/12 hrs)
   MAC 2233 or MAC 2311 Calculus I
   MAC 2233 or MAC 2312 Calculus II
   PHY 2053 or PHY 2048/L Physics I/Lab

3. Engineering Technology Core Requirements (44 hrs)
   ANT 2511, BSC 1020, BSC 1030, BOT 1000,
   GEO 1200, GEO 3370 or GLY 1030
   ENC 3241 Writing for the Technical Professional
   MAC 1104 College Algebra
   MAC 1114 College Trigonometry
   MAC 2233 or MAC 2311 Calculus I
   MAC 2233 or MAC 2312 Calculus II
   PHY 2053 or PHY 2048/L Physics I/II
   PHY 2053 or PHY 2048/L Physics II
   ETG 3541 Applied Mechanics
   EET 3651C Computer Applications
   ETT 3671 Technical Economic Analysis
   ETT 2110 Industrial Quality Control
   ETT 4635 Technology Administration
   MAP 3401 Problem Analysis

4. Technical Specialization (57 hrs)
   Lower Level Required and Elective Courses (26 hrs)
   CET 2123C Microprocessor Electronics I
   CET 2XXX Digital Fundamentals
   COP 2220C, 2221C, 2222C C Programming

   Upper Level Required Courses (24 hrs)
   CET 3145C Applied Digital Electronics
   CET 3191C Advanced Electrical Circuits
   CET 3703C Microprocessor Electronics II
   CET 4138C Digital Programming Devices
   CET 4139C Microprocessor Technology

   Upper Level Technical Electives (7 hrs)
   CET 2364 Systems Applications
   CET 3143C Applied Computer Systems
   CET 3292C Communication Systems
   CET 4159C Microprocessor Technology
   CET 4339C Antennas and Propagation

   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.

Total Semester Hours Required: 128 hours

Related Programs:
Electrical Engineering, Electrical Engineering Technology (Information Systems Concentration).

Related Minors: None.
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**

<table>
<thead>
<tr>
<th></th>
<th>Junior Year</th>
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<th></th>
<th>Senior Year</th>
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<td>Fall 16 hrs</td>
<td>Spring 13 hrs</td>
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<tr>
<td>MAC 2253 Applied Calc I</td>
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<td>MAC 2254 Applied Calculus II</td>
<td>3</td>
<td>EET 4158C Linear Int Cir</td>
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<tr>
<td>or MAC 3311 Calc w/ Anal Geom I</td>
<td>4</td>
<td>or MAC 3312 Calc w/ Anal Geom II</td>
<td>4</td>
<td>CET 3144C Appl Mic Proc Tech</td>
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<tr>
<td>CET 3158C Digital Systems</td>
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<td>EET 4158C Linear Int Cir</td>
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<td>EET 4548 Power Systems</td>
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<tr>
<td>ETG 3541 Applied Mechanics</td>
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<td>CET 3303 Microcom Tech I</td>
<td>3</td>
<td>CET/ EET Approved Elective</td>
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<tr>
<td>ETI 3651C Computer Appl</td>
<td>3</td>
<td>EET 3716C Network Analys</td>
<td>4</td>
<td>CET/ EET Approved Elective</td>
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<tr>
<td>ETI 2110 Quality Control</td>
<td>3</td>
<td>ETI 3671 Tech Econ Anal</td>
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<td>MAP 3401 Problem Analysis</td>
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<tr>
<td>MAC 3312 Calc w/ Anal Geom II</td>
<td>4</td>
<td>EET 4732 Feedback Control</td>
<td>4</td>
<td>EET 3143C Elect Dev &amp; Cir</td>
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<td>CET 3198C Digital Systems</td>
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<td>CET 3303 Microcom Tech I</td>
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<td>CET/ EET Approved Elective</td>
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<tr>
<td>ETI 2110 Quality Control</td>
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<td>ETI 3671 Tech Econ Anal</td>
<td>2</td>
<td>MAP 3401 Problem Analysis</td>
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</tr>
</tbody>
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PHY 2048/L can substitute for PHY 2053C.
ELECTRICAL ENGINEERING
TECHNOLOGY - INFORMATION
SYSTEMS CONCENTRATION:
BACHELOR OF SCIENCE

College of Engineering
Engineering Technology (ENT) Department
UCF Research Pavilion Building, Suite 493
12424 Research Park Parkway
Orlando, FL 32826
Ms. Rosida Coowar
(407) 384-2151 FAX: (407) 384-2157
E-mail: rcoowar@ucfvm.cc.ucf.edu

Admission Requirements  None

Degree Requirements
✓ The State University System requires most students to complete a minimum of 9 semester hours during summer terms prior to graduation. (See the section on Summer Attendance Requirement found elsewhere in this catalog.)
✓ Students should check with their ENT faculty advisor frequently to insure that they are making proper progress toward the degree.

1. UCF General Education Program  (24 hrs)
   A. Communication Foundations  9 hrs
   If possible, engineering technology students should take SPC 1016 instead of SPC 1600C. See course descriptions.
   B. Cultural and Historical Foundations  9 hrs
   C. Mathematical Foundations
   Requirement moved to Engineering Tech Core
   D. Social Foundations  6 hrs
   E. Science Foundations
   Requirements moved to Engineering Tech Core

2. Common Program Prerequisites  (10/12 hrs)
   MAC 2253 or MAC 2311 Calculus I  3/4 hrs
   MAC 2254 or MAC 2312 Calculus II  3/4 hrs
   PHY 2053C or PHY 2048/L Physics I/Lab  4 hrs

3. Engineering Technology Core Requirements  (44 hrs)
   ANT 2511, BSC 1020, BSC 1030, BOT 1000,
   GEO 1200, GEO 3370, or GLY 1030  3 hrs
   ENC 3241 Writing for the Technical Professional  3 hrs
   MAC 1104 College Algebra  3 hrs
   MAC 1114 College Trigonometry  3 hrs
   MAC 2253 or MAC 2311 Calculus I  3/4 hrs
   MAC 2254 or MAC 2312 Calculus II  3/4 hrs
   PHY 2053C College Physics I  4 hrs
   PHY 2054C College Physics II  4 hrs
   ETG 3541 Applied Mechanics  4 hrs
   ETI 3651C Computer Applications  3 hrs
   ETI 3671 Technical Economic Analysis  2 hrs
   ETI 2110 Industrial Quality Control  3 hrs
   ETI 4635 Technology Administration  3 hrs
   MAP 3401 Problem Analysis  3 hrs

4. Technical Specialization  (57 hrs)
   Lower Level Required and Elective Courses  (22 hrs)
   CET 2123C Microprocessor Electronics I  3 hrs
   CET 3323C Digital Technology  3 hrs
   COP 2220C, 2221C, 2222C  C Programming  3 hrs
   EET 3085C Electricity and Electronics  4 hrs
   Approved Lower Level Technical Electives  9 hrs
   Upper Level Required Courses  (31 hrs)
   CET 3198C Digital Systems  4 hrs
   CET 3303 Microcomputer Technology I  3 hrs
   CET 2364 Systems Applications in C  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
   CET 4523 Applied Systems Analysis II  3 hrs
   EET 3716 Network Analysis  3 hrs
   EET 4158C Linear Integrated Circuits  3 hrs
   Upper Level Technical Elective (Select 1)  (3 hrs)
   CET 4138C Digital Programmable Devices  4 hrs
   CET 4429 Applied Database II  3 hrs
   CET 4527 Applied Operating Systems II  3 hrs

5. Departmental Exit Requirements  (3 hrs)
   ✓ CET 4915C Senior Design Project  3 hrs
   ✓ Earn a graduating UCF and overall GPA’s ≥ 2.000

6. Foreign Language Requirements  (0-8 hrs)
   Admission: 2 years of one foreign language in high school, or 1 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
   ✓ 2.000 GPA in all work attempted (both UCF and overall)
   ✓ 60 semester hours earned after any CLEP award
   ✓ 48 semester hours of upper division credit completed
   ✓ 32 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required:  128 hours

Related Programs: Computer Engineering, 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 may have thereby satisfied UCF GEP requirements.
✓ Students entering a UCF undergraduate program and having a previously-earned baccalaureate degree from an accredited institution may 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
Tentative Course Schedule for the Information Systems Concentration

### Junior Year

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<th>Fall</th>
<th>16/17 hrs</th>
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<tr>
<td>MAC 2253/2311 Calculus I</td>
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<td>ETO 3541 Appl Mechanics</td>
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<td>EET 3716C Network Analys</td>
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<td>ETI 2110 Quality Control</td>
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<td>ETI 3651C Comp Analys</td>
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<td>ENC 3241 Tech Report Writ</td>
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<td>CET 4333 Computer Org</td>
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<td>CET 3303 Microcom Tech I</td>
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<td>CET 3383 Appl Sys Anal I</td>
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### Senior Year

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<td>EET 4158C Linear Int Cir</td>
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<td>CET/EET Elective</td>
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<td>CET 4523C Appl Sys Anal II</td>
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<td>CET 3198C Digital Systems</td>
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<td>CET 4427 Appl Data Base I</td>
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<td>MAP 3401 Problem Analysis</td>
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ELEMENTARY EDUCATION: BACHELOR OF SCIENCE

College of Education
Instructional Programs Department, ED346
(407) 823-2939

Admission Requirements
- have on file in the University admissions office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University admissions office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a "C" or better grade in EDG4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student's major
- meet any special departmental requirements

Degree Requirements
- Students should consult with an advisor
- 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
      Select *SPC 1600C Fundamentals of Oral Comm
      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
   B. Cultural-Historical Foundations
      Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020
      Select one course from ARH 2050, 2051; MUL 2010; THE 1020; REL 2300; PHI 2010; LIT 2110; LIT 2120
   C. Mathematical Foundations
      Select *MAC 1140 College Algebra or *MGF 1203 Finite Math
      Select CGS 1060C Intro Comp Sci or STA 2023 Statistical Math
   D. Social Foundations
      Select *PSY 2013 Gen Psychology or *SYG 2000 ECO 2013 Princ of Economics or POS 2041 Amer Nat. Gov't
   E. Science Foundations
      Select PSC 1121 Physical Science
      Select BSC 1020, Biological Principles
   *College Preprofessional Requirements.
   At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.
   **The courses listed in Section I should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites (9 hrs)
   EDF 2005 Intro to Education 3 hrs
   *EDG 2701 Teaching Diverse Populations 3 hrs
   EME 1040 Intro to Technology 3 hrs

*In addition to EDG2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work.
* 15 hours are required BEYOND those taken to meet General Education requirements and must be from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences; and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirement, two courses in the natural sciences. A course in Human Growth and Development can substitute for psychology.

3. Preprofessional Requirements
   * See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSY 2013 Gen Psychology
   SYG 2000 General Sociology or
   ANT 3410 General Anthropology or
   GEO 3470 World Political Geography
   MAC 1104 College Algebra or
   MGF 1203 Finite Math
   * See transfer notes for possible substitutes

4. Specific Program Requirements (10 hrs)
   EDF 4323 Professional Teaching Practices 3 hrs
   MAE 2801 Elementary School Mathematics 4 hrs
   RED 3012 Basic Foundations of Reading 3 hrs

4. Education Core Requirements
   Recommended sequence for full time elementary education majors.
   Semester I (13 hrs)
   EDF 4323 Professional Teaching Practices 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs
   LAE 3414 Children's Literature 3 hrs
   RED 3012 Foundations of Reading 3 hrs
   HLP 4722 Teaching Elementary Health & PE 3 hrs
   Semester II (Internship I Block) (15 hrs)
   EDE 3942 Internship I 6 hrs
   RED 4519 Dia Cor Inst Reading(PR RED 3012) 3 hrs
   MAE 4326 How Children Learn Math 3 hrs
   EEX 4005 Teaching/Management Tech. Ex Ed Student in Reg. Setting 3 hrs
   *A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.

Summer (3 hrs)
   EDF 4603 Anal. of Critical Issues in Ed. 3 hrs

Semester III (15 hrs)
   SCE 3310 Teach Science in Elem School 3 hrs
   SSE 3312 Teaching Soc Sci in the Elem Sch 3 hrs
   LAE 4314 Teaching Language Arts in Elem 3 hrs
   ARE 4313 Teaching Art in Elem Sch 3 hrs
   MUE 3210 Teaching Music in the Elem School 3 hrs
   Semester IV (12 hrs)
   EDE 4943 Internship II 12 hrs

5. Internship II (EDE 4943.01) (12 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.
   All specialization courses must be completed with a letter grade of
"C" or better before registering for Internship II.

6. Foreign Language Requirements (0-6 hrs)
State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

7. Departmental Exit Requirements:
Achieve a 2.5 GPA in all courses within the major

8. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 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.
* Acceptable substitutes:
While other courses may be acceptable, these courses are prerequisites for upper division coursework.
ENGINEERING TECHNOLOGY -
DESIGN CONCENTRATION:
BACHELOR OF SCIENCE

College of Engineering
Engineering Technology (ENT) Department
UCF Research Pavillion Building, Suite 493
12424 Research Park Parkway
Orlando, FL 32826
Prof. J. E. Walsh, PE, Program Coordinator
(407) 384-2154, FAX: (407) 384-2157

Admission Requirements None

Degree Requirements
- The State University System requires most students to complete a minimum of 9 semester hours during summer terms prior to graduation. (See the section on Summer Attendance Requirement found elsewhere in this catalog.)
- Students should check with their ENT faculty advisor frequently to insure that they are making proper progress toward the degree.

1. UCF General Education Program (24 hrs)
   A. Communication Foundations 9 hrs
      If possible, engineering technology students should take SPC 1016 instead of SPC 1600C. See course descriptions.
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Requirement moved to Engineering Tech Core and Technical Specialization (lower level)
   D. Social Foundations 6 hrs
   E. Science Foundations
      Requirements moved to Engineering Tech Core

2. Common Program Prerequisites (10/12 hrs)
   MAC 2253 or MAC 2311 Calculus I 3/4 hrs
   MAC 2254 or MAC 2312 Calculus II 3/4 hrs
   PHY 2053C or PHY 2048/L Physics I/Lab 4 hrs

3. Engineering Technology Core Requirements (44 hrs)
   ANT 2511, BSC 1020, BSC 1030, BOT 1000, GEO 1200, GEO 3370, or GLY 1030 3 hrs
   ENC 3241 Writing for the Technical Professional 3 hrs
   MAC 1104 College Algebra 3 hrs
   MAC 1114 College Trigonometry 3 hrs
   MAC 2253 or MAC 2311 Calculus I 3/4 hrs
   MAC 2254 or MAC 2312 Calculus II 3/4 hrs
   PHY 2053C College Physics I 4 hrs
   PHY 2054C College Physics II 4 hrs
   ETG 3541 Applied Mechanics 4 hrs
   ETI 3651C Computer Applications 3 hrs
   ETI 3671 Technical Economic Analysis 2 hrs
   ETI 2110 Industrial Quality Control 3 hrs
   ETI 4635 Technology Administration 3 hrs
   MAP 3401 Problem Analysis 3 hrs

4. Technical Specialization (60 hrs)
   CET 2123C Microprocessor Electronics I 3 hrs
   CHM 1032, 1032L General Chemistry, Lab 4 hrs
   COP 2220, 2221, 2222 C Programming 3 hrs
   EET 3085 Electricity and Electronics 4 hrs
   EGN 1111C Engr Computer Graphics 2 hrs
   Approved Lower Level Technical Electives 11 hrs
   Upper Level Required Courses (18 hrs)
   EST 4502C Metrology & Instrumentation 4 hrs
   ETD 3350C Applied CADD 3 hrs
   ETG 2530C Strength of Materials 4 hrs
   ETI 3421 Materials & Processes 3 hrs
   ETM 4220 Applied Energy Systems 4 hrs
   Upper Level Technical Elective (Select 4) (12 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

5. Departmental Graduation Requirements (3 hrs)
   - ETG 4950C Senior Design Project 3 hrs
   - Earn a graduating UCF and overall GPA's ≥ 2.000

6. Foreign Language Requirements (0-8 hrs)
   Admission: 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

   Graduation: None.

7. Approved Technical Electives (8 hrs)
   Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Graduation Requirements
   - 2.000 GPA in all work attempted (both UCF and overall)
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 32 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hours

Related Programs: Civil Engineering, 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**

### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>16/17 hrs</th>
<th>Spring</th>
<th>17/18 hrs</th>
</tr>
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<tbody>
<tr>
<td>MAC 2353/2311 Calculus I</td>
<td>3/4</td>
<td>MAC 2354/2312 Calculus II</td>
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</tr>
<tr>
<td>ETG 3541 Appl Mechanics</td>
<td>4</td>
<td>ETG 2530C St of Matls</td>
<td>4</td>
</tr>
<tr>
<td>ETI 2110 Quality Control</td>
<td>3</td>
<td>EET 3085C Elec &amp; Eletron</td>
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### Senior Year

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ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION: BACHELOR OF SCIENCE

College of Engineering
Engineering Technology (ENT) Department
UCF Research Pavilion Building, Suite 493
12424 Research Park Parkway
Orlando, FL 32826

Admission Requirements: None

Degree Requirements:
- The State University System requires most students to complete a minimum of 9 semester hours during summer terms prior to graduation. (See the section on Summer Attendance Requirement found elsewhere in this catalog.)
- Students should check with their ENT faculty advisor frequently to insure that they are making proper progress toward the degree.

1. UCF General Education Program (24 hrs)
   A. Communication Foundations
      - If possible, engineering technology students should take SPC 1016 instead of SPC 1600C. See course descriptions.
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
      - Requirement moved to Engineering Tech Core and Technical Specialization (lower level)
   D. Social Foundations
   E. Science Foundations
      - Requirements moved to Engineering Tech Core

2. Common Program Prerequisites (10/12 hr)
   - MAC 2253 or MAC 2311 Calculus I
   - MAC 2254 or MAC 2312 Calculus II
   - PHY 2053C or PHY 2048/L. Physics I/Lab

3. Engineering Technology Core Requirements (44 hr)
   - ANT 2511, BSC 1020, BSC 1030, BOT 1000,
     GEO 1200, GEO 3370, or GLY 1030
   - ENC 3241 Writing for the Technical Professional
   - MAC 1104 College Algebra
   - MAC 1114 College Trigonometry
   - MAC 2353 or MAC 2311 Calculus I
   - MAC 2354 or MAC 2312 Calculus II
   - PHY 2053C or PHY 2048/L. Physics I/Lab
   - PHY 2054C or PHY 2048/L. Physics II/Lab
   - ETG 3541 Applied Mechanics
   - ETI 3651C Computer Applications
   - ETI 3671 Technical Economic Analysis
   - ETI 2110 Industrial Quality Control
   - ETI 4635 Technology Administration
   - MAP 3401 Problem Analysis

4. Technical Specialization (60 hrs)
   - CET 2123C Microprocessor Electronics I
   - CHM 1032, 1032L General Chemistry, Lab
   - COP 2220, 2221, 2222 C Programming
   - EET 3085C Electricity and Electronics
   - EGN 1111C Engr Computer Graphics
   - Approved Lower Level Technical Electives
     - Upper Level Required Courses (18 hrs)
     - EST 4502C Metrology & Instrumentation
     - ETD 3350C Applied CADD
     - ETG 2530C Strength of Materials
     - ETL 3421 Materials & Processes
     - ETL 4220 Applied Energy Systems
     - Upper Level Technical Elective (Select 4) (12 hrs)

5. Departmental Graduation Requirements (3 hrs)
   - ETI 4950C Senior Design Project
   - Earn a graduating UCF and overall GPA's ≥ 2.00.

6. Foreign Language Requirements (0-8 hrs)
   - Admission: 2 years of one foreign language in high school, or 1 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
   - 2.000 GPA in all work attempted (both UCF and overall)
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 32 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

Related Programs: Civil Engineering, 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 must 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

#### Junior Year

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<td>MAC 2254/2312 Calculus II</td>
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<td>ETG 3541 Mechanics</td>
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<td>ETG 2530C St of Matrls</td>
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<td>ETI 2110 Quality Control</td>
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<td>EET 3085C Elect &amp; Electron</td>
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<td>ETI 4640 Proc Plan &amp; Sch</td>
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<td>ETI 4186 Appl Reliability</td>
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<td>ETD 3530C Appl CAD</td>
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<td>CET 2123C Micro Proc Elect</td>
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#### Senior Year

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ENGLISH - CREATIVE WRITING:
BACHELOR OF ARTS

College of Arts and Sciences
English Department, FA 301, E-mail: english@ucf.edu
Dr. D. Trouard, (407) 823-2212

Admission Requirements None

Degree Requirements

- Students must earn at least a "C" in each required course
- 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 Coordinator
- Fulfill University requirements for Honors in the Major
- Grade of "B" or better in Honors Seminar (3 hours). Bibliography and Research Methods (1 hour), one 5000 level English elective (3 hours), and Directed Readings (3 hours). (Honors Seminar and Directed Readings substitute for one restricted elective and one English core course).
- Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   Select ENC 1101 Composition I 3 hrs
   Select ENC 1102 Composition II 3 hrs
   Select SPC 1600C Fund of Oral Com 3 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 (6 hrs)

ENC 1101* Composition I 3 hrs
ENC 1102* Composition II 3 hrs
*See Transfer Notes for possible substitutes

3. Restricted Electives (36 hrs)

Choose two of the following: 6 hrs

ENG 3014 Theory & Tech of Literary Study
CRW 3013 Creative Writing for English Majors
ENC 3211 Theory & Practice of Tech Writing

Choose three of the following: 9 hrs

ENL 2012 English Literature I
ENL 2021 English Literature II
AML 3031 American Literature I
AML 3051 American Literature II

Choose two of the following: 6 hrs

ENL 4311 Chaucer
ENL 4333 Shakespeare
ENL 4341 Milton and His Age
LIN 3010 Principles of Linguistics
LIN 4100 History of the English Language
LIN 4680 Modern English Grammar

Choose two of the following: 6 hrs

CRW 2100 Fiction Writing
CRW 3211 Creative Nonfiction Writing

CRW 2300 Thry and Prac of Poetry Writing
ENC 3310 Magazine Writing I

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
ENC 4341 Magazine Writing II

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

4. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses
- Computer Competency met by completion of CRW 3003

5. 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 may be used to satisfy one semester of the Graduation requirement.

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:

- "D" grades from other institutions do not meet departmental 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 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: BACHELOR OF ARTS

College of Arts and Sciences
English Department, FA 301, E-mail: english@ucf.edu
Dr. D. Trouard, (407) 823-2212

Admission Requirements None

Degree Requirements
- Students must earn at least a "C" in each required course
- 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 Coordinator
- Fulfill University requirements for Honors in the Major
- Grade of "B" or better in Honors Seminar (3 hours). Bibliography and Research Methods (1 hour), one 5000 level English elective (3 hours), and Directed Readings (3 hours). (Honors Seminar and Directed Readings substitute for one restricted elective and one English core course)
- Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)
A. Communication Foundations
Select ENC 1101 Composition I 3 hrs
Select ENC 1102 Composition II 3 hrs
Select SPC 1600C Fund of Oral Com: 3 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 (6 hrs)
ENC 1101* Composition I 3 hrs
ENC 1102* Composition II 3 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (12 hrs)
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. Upper Division Restricted Electives (24 hrs)
Choose two of the following: 6 hrs
ENG 3014 Theory & Tech of Literary Study
CRW 3013 Creative Writing for English Majors
ENC 3211 Theory & Practice of Tech Writing
Choose one of the following: 3 hrs
ENL 4311 Chaucer
ENL 4341 Milton
ENL 4333 Shakespeare
Choose one of the following: 3 hrs
LIN 3010 Principles of Linguistics
LIN 4100 History of the English Language

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 cultural/multicultural or related course 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 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.

LIN 4680 Modern English Grammar
Choose four upper level courses: 12 hrs
AML, ENL & LIT prefix
ENGLISH - TECHNICAL WRITING: BACHELOR OF ARTS

College of Arts and Sciences
English Department, FA 301, E-mail: english@ucf.edu
Dr. D. Trouard, (407) 823-2212

Admission Requirements  None

Degree Requirements
- Students must earn at least a "C" in each required course
- 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 Coordinator
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- Successful completion and oral defense of honors thesis

1. UCF General Education Program  (36 hrs)
A. Communication Foundations
   Select ENC 1101 Composition I  3 hrs
   Select ENC 1102 Composition II  3 hrs
   Select SPC 1600C Fund of Oral Com  3 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  (6 hrs)
   ENC 1101* Composition I  3 hrs
   ENC 1102* Composition II  3 hrs
   *See Transfer Notes for possible substitutes

3. Core courses-Basic  (18 hrs)
   Choose two of the following:  6 hrs
   ENG 3014 Theory & Tech of Literary Study
   CRW 3013 Creative Writing for English Majors
   ENC 3211 Theory & Practice of Tech Writing

   Choose three of the following four  9 hrs
   ENL 2012 English Literature I
   ENL 2021 English Literature II
   AML 3031 American Literature I
   AML 3051 American Literature II

   Required Basic Course  3 hrs
   ENC 3311 Advanced Expository Writing

4. Core requirements-Advanced  (24 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
   LIT 4433 Technical and Sci Literature  3 hrs
   ENC 4280 Technical Writing Style  3 hrs
   ENC 3283 Science and the Lay Reader  3 hrs
   Optional course
   ENC 4941 Tech Writing & Editing Internship

5. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in upper division required courses
   - Computer Competency met by completion of ENC 4293

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 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 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 EDUCATION: BACHELOR OF SCIENCE

College of Education
Instructional Programs, ED346, (407) 823-2939
Coordinator: Dr. Janet Allen

Admission Requirements:
- have on file in the University admissions office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University admissions office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a “C” or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student’s major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select *SPC 1600C Fundamentals of Oral Comm 9 hrs
      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
   B. Cultural-Historical Foundations
      Select One 2 semester sequence:
      - EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020
      Select one course from ARH 2050, 2051,
      MUL 210; THE 1020; REL 2300; PHI 2010; *LIT 2110; *LIT 2120
   C. Mathematical Foundations
      Select *MAC 1104 College Algebra or
      *MGF 1203 Finite Math
      Select CMA 1000C Intro. Comp Sci or
      STA 2014 Statistical Math
   D. Social Foundations
      Select *PSY 2013 Gen. Psychology
      ECO 2013 Princ of Economics or
      POS 2041 Amer. Nat. Gov’t
   E. Science Foundations
      Select PSC 1121 Physical Science
      Select BSC 1020 Biological Principles
   * College Preprofessional Requirements.
   At least one course taken to meet the natural science requirements in General Education and/or prerequisites must include a laboratory component.
   **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education 3 hrs
   *EDG 2701 Teaching Diverse Populations 3 hrs
   EME 1040 Intro to Technology 3 hrs

*In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

*PLUS the following General Program Prerequisites:
* SPC 1600C Fundamentals of Oral Comm 3 hrs
* LIT 2110 World Lit I or 3 hrs
* LIT 2120 World Lit II 3 hrs
Select three of the following: (9 hrs)
AML 3031 Amer Lit I 3 hrs
AML 3051 Amer Lit II 3 hrs
ENL 2012 Eng Lit I to 1798 3 hrs
ENL 2021 Eng Lit II to 1950 3 hrs
*See transfer notes for possible substitutes.

3. Preprofessional Requirements
* See General Education Program
SPC 1600C Fundamentals of Oral Comm
PSY 2013 Gen Psychology
MAC 1104 College Algebra or
MGF 1203 Finite Math
CRW 3013 Intro to Creative Writing

4. Core English Specialization Requirements (24 hrs)
   English Specialization requirements total 30 hours, 15 of which should be taken during the first two years in college. Those courses listed below and not taken during the first two years in college should be completed prior to Internship II. Choose 8 of the following:
   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
   ENL 2012 Eng Lit I to 1798 3 hrs
   ENL 2021 Eng Lit II to 1950 3 hrs
   LIN 4680 Mod Eng Grammar 3 hrs
   LIT 2110 World Lit I or 3 hrs
   LIT 2120 World Lit II GEP
   LIT 2000 Literary Analysis 3 hrs
   Restricted Elective-English or English Ed 3 hrs

5. Education Core Requirements: (9 hrs)
   EDG 4323 Professional Teaching Practices 3 hrs
   EDF 4603 Analysis of Critical Issues in Ed. 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs

6. Prerequisite to Internship I (6 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.
   EDG 4323 Professional Teaching Practices 3 hrs
   LAE 4646 Adol Lit 3 hrs
   LAE 4XXX Lit Strat for Middle/Secondary Teach 3 hrs

7. Internship I Block (13 hrs)
   LAE 4360 Eng Instructional Analysis 4 hrs
   LAE 4342 Teach Lang/Comp 3 hrs
   ESE 3940 Internship I 6 hrs

8. Internship II (ESE4943) 6-12 (12 hrs)
   A student must have completed the portfolio process for Internship II Satisfactorily before student teaching.
9. Foreign Language Requirements  
(0-6 hrs)
State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

10. Departmental Exit Requirements:
Achieve a 2.5 GPA in all courses within the major

11. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 122 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.

*Acceptable Substitutes:
Another literature course (3 hrs) and other English electives (9 hrs) may be acceptable substitutes; however, for certification purposes students should take the listed courses.
ENVIRONMENTAL ENGINEERING:
BACHELOR OF SCIENCE

College of Engineering
Civil & Environmental Engineering Department (CEE),
ENGR 207B, (407) 823-2841, FAX: (407) 823-3315,
Home Page http://www-cee.engr.ucf.edu
Dr. Manoj Chopra, E-Mail: chopra@mail.ucf.edu

Admission Requirements:
All entering students are required by UCF 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. Each entering student should plan to attend
Orientation at the earliest date offered, and must ensure that required
transcripts have been submitted to the Admissions Office well in
advance of the selected orientation date. Transcripts require
processing, and this information must be available to engineering
advisors at Orientation to assist students in selecting and registering
for appropriate first-semester classes.

Degree Requirements
- The State University System requires most students to complete
  a minimum of 9 semester hours during summer terms prior to
  graduation. See the section, Summer Attendance Requirement,
  elsewhere in this catalog.
- Engineering students are required to complete at least 32 semester
  hours of regularly-scheduled 3XXX- or 4XXX-level courses
  specifically in the selected major.
- 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 (min 36 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. Using these substitutions will help
the engineering student to minimize excess hours. Students
transferring to UCF from within the Florida State University/
Community College Systems are encouraged to complete the GEP
and the Common Program Prerequisites before transferring.
- Beginning freshman engineering students must complete the UCF
  GEP for Engineering Students as detailed in paragraphs A.
  through E. below. Those students who have not completed a
college preparatory course of study in high school may be
required to complete additional prerequisite courses before taking
specific courses shown.
- Students who are transferring to the UCF College of Engineering
  and who have not completed the general education program at a
State of Florida public institution must complete the UCF GEP
for Engineering Students as detailed in paragraphs A. through E.
below.
- Students who have completed the general education requirements
  at any of the Florida public institutions have, by law, met the
UCF GEP requirements and may begin appropriately enrolling in
Common Program Prerequisites and Courses Required for the
Major as shown in paragraphs 2. and 3. below.

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
<th>9 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs min</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>2. Common Program Prerequisites (CPR's)</td>
<td>(48 hrs)</td>
</tr>
</tbody>
</table>

These courses are specifically required for all engineering students
of the Florida State University System. CPR courses are also
available at other Florida post-secondary schools and may be
transferred directly to UCF programs. NOTE: MAC 2311 and
PHY 2048/48L also satisfy UCF GEP sub-requirements 1.C.L. and
1.E.L., respectively.

| CHM 2045/45L Chemistry Fundamentals | 4 hrs |
| MAC 2311 Calculus with Analytic Geometry | 4 hrs |
| MAC 2312 Calculus with Analytic Geometry II | 4 hrs |
| MAC 2313 Calculus with Analytic Geometry III | 4 hrs |
| MAP 2302 Differential Equations | 3 hrs |
| PHY 2048/48L Physics for Engineers & Scientists I | 4 hrs |
| PHY 2049/49L Physics for Engineers & Scientists II | 4 hrs |
| ENC 1101 Composition I | 3 hrs |
| ENC 1102 Composition II | 3 hrs |
| Humanities Courses | 6 hrs |
| Social Science Courses | 6 hrs |
| Humanities and Social Sciences | 3 hrs |

See the descriptions of these courses in the section, Alphabetical
Listing of Courses, later in this catalog.

B. Cultural and Historical Foundations
   Engineering students should meet this requirement as it is
   described in the section, General Education Program, found
   elsewhere in this catalog.

C. Mathematical Foundations
   Engineering students must take this sub-requirement and the same
   listed below in 2. Common Program Prerequisites. NOTE: College algebra
   and trigonometry are prerequisites for Calculus I. See the course
descriptions.
- Freshman engineering students who completed advanced
  algebra and trigonometry in high school, or transferring
  students who have taken college algebra and trigono-
  metric, satisfy this prerequisite requirement and should
  begin the calculus sequence their first semester at UCF.
- Students who completed AP calculus in high school can
determine their math status from the section, UCF
Advanced Placement Program, found elsewhere in this
catalog.

2. Take STA 3032 (3 hrs) to complete this sub-requirement
   and the same requirement listed below in 3. Courses
   Required for the Major. NOTE: Calculus II is the
   prerequisite for this course.

D. Social Foundations
   1. Engineering students must take ECO 2013 or ECO 2023 to
      satisfy this sub-requirement.
   2. Take ANT 2003, PSY 2013 or SYG 2000. See the course
      descriptions to assist in making your selection.

E. Science Foundations
   1. Take PHY 2048/48L, Physics for Engineers and Scientists
      I with laboratory, (4 hrs) to meet this sub-requirement and
      the Common Program Prerequisites in 2. below. See the course
      descriptions.
   2. Either GEO 1200 or GEO 3370 is preferred for meeting this
      requirement. See the course descriptions to assist in making
      your selection.

2. Common Program Prerequisites (CPR's) (48 hrs)
   These courses are specifically required for all engineering students
   of the Florida State University System. CPR courses are also
   available at other Florida post-secondary schools and may be
   transferred directly to UCF programs. NOTE: MAC 2311 and
   PHY 2048/48L also satisfy UCF GEP sub-requirements 1.C.L. and
   1.E.L., respectively.
**Dynamics** 3 hrs

Admission: 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**University Minimum Graduation Requirements**
- A 2.000 GPA in all work attempted (both UCF and overall).
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 31 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

**Related Programs:** Civil Engineering.

**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 her/his petition for this evaluation.

**Tentative Course Schedule for Entering Freshmen**

**Environmental Engineering** - 128 semester hours required

### FIRST YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Eng Comp I</td>
<td>ENC 1102 Eng Comp II</td>
</tr>
<tr>
<td>*CHM 2045 Chemistry Funds I</td>
<td>*CHM 2046/L Chem Fund II/Lab</td>
</tr>
<tr>
<td>*Eco 2013</td>
<td>*MAC 2313 Calc w/Analy Geo II</td>
</tr>
<tr>
<td>ECO 2023 Economics I, II</td>
<td>*PHY 2048/L Phys Engr &amp; Sci I</td>
</tr>
<tr>
<td>ES 4211C</td>
<td>*MAC 2311 Calc w/Analy Geo II</td>
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**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>*Cult &amp; Hist Foundations 1a</td>
<td>*Science Foundations 2</td>
</tr>
<tr>
<td>*MAC 2313 Calculus III</td>
<td>*Social Foundations 2</td>
</tr>
<tr>
<td>*PHY 2049/L Phys Engr&amp;Sci II</td>
<td>*Science Foundations 2</td>
</tr>
<tr>
<td>EGN 3310 Engr Anal-Statics</td>
<td>*MAP 2302 Diff Equations</td>
</tr>
<tr>
<td>EGN 3613 Eng'ring Econ Anal 2</td>
<td>EGN 3321 Engr Anal-Dynamics</td>
</tr>
<tr>
<td>EGN 3704 Engrg &amp; the Environment</td>
<td>EGN 3704 Engrg &amp; Envrnmnt</td>
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<tr>
<td>EnvE Design Courses</td>
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</tbody>
</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>EGN 3315 Stat &amp; Prop Matls</td>
<td>*Cult &amp; Hist Foundations 2</td>
</tr>
<tr>
<td>EGN 3930 ST: Prin of Elec Engr</td>
<td>*MAC 2313 Calc w/Analy Geo II</td>
</tr>
<tr>
<td>STA 3032 Probability &amp; Statistics for Engineers</td>
<td>*PHY 2048/L Phys Engr &amp; Sci I</td>
</tr>
<tr>
<td>CWR 4202C Chemical Process Control</td>
<td>*Science Foundations 2</td>
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<tr>
<td>ENV 4121C Air Pollution</td>
<td>EGN 3343 Thermodynamics</td>
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<tr>
<td>ENV 4341 Solid Waste Management</td>
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<tr>
<td>ENV 4561 Environmental Engng-Process Design</td>
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<tr>
<td>ENV 4563 Environmental Control Systems</td>
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</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>EGN 4624 Engineering Admin</td>
<td>Approved Proj Design Course I</td>
</tr>
<tr>
<td>EES 4202C Cheml Proc Control</td>
<td>Approved Proj Design Course II</td>
</tr>
<tr>
<td>ENV 4561 Process Design</td>
<td>Approved Technical Elective</td>
</tr>
<tr>
<td>ENV 4563 Envrmntl Cont Sys</td>
<td>Approved Technical Elective</td>
</tr>
<tr>
<td>CWR4101C Hydrology</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult with the CEE Department in ENGR 207 for approved technical electives and approved project design courses and for the terms when specific courses of these two types are to be offered. Students should check with their faculty advisor frequently to ensure they are making satisfactory progress toward their degree.
3. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
4. Environmental engineering students must earn at least 32 hours in residence at UCF.
EXCEPTIONAL STUDENT EDUCATION: BACHELOR OF SCIENCE

College of Education
Exceptional Education Department (407) 823-2036
Dr. Martha Lue, Coordinator

Admission Requirements:
- Have on file in the University admissions office passing scores on all parts of the College Level Academic Skills Test (CLAST).
- Have on file in the University admissions office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced).
- Present an overall GPA of 2.5.
- Achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent.
- Complete a formal application for admission to a particular teacher education program.
- Be recommended by the faculty of the department of the student's major.
- Meet any special departmental requirements.

Degree Requirements:
- Students should consult with an advisor.
- Students must earn at least a "C" 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.

I. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
   - Select *SPC 1600C Fundamentals of Oral Comm
   - Select ENC 1101 Composition I
   - Select ENC 1102 Composition II

B. Cultural-Historical Foundations (9 hrs)
   - Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2030
   - Select one course from ARH 2050, 2051; MUL 2010; THE 1020, REL 2300; PHI 2010; LIT 2110; LIT 2120

C. Mathematical Foundations (6 hrs)
   - Select *MAC 1104 College Algebra or *MGF 1203 Finite Math
   - Select CGS 1060C Intro. Comp. Sci or STA 2023 Statistical Math

D. Social Foundations (6 hrs)
   - Select *PSY 2013 Gen. Psychology or *SYG 2000 Gen Sociology
   - Select ECO 2013 Princ. of Economics or POS 2041 Amer. Nat. Gov't

E. Science Foundations (6 hrs)
   - Select PSC 1121 Physical Science
   - Select BSC 1020 Biological Principles
   - * College Preprofessional Requirements.

   At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.

   ** The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites (9 hrs)
   - EDF 2005 Intro to Education
   - *EDG 2701 Teaching Diverse Populations
   - EME 1040 Intro to Technology

   *In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

   * 15 hours are required BEYOND those taken to meet General Education requirements and must be from the following liberal arts and sciences areas: a) fine arts or humanities; b) political sciences, sociology, economics, cultural geography, or speech; c) mathematics; d) natural sciences; and/or e) psychology. Among these 15 hours must be included one course in mathematics, and combined with the General Education Requirement, two courses in the natural sciences.

3. Preprofessional Requirements
   * See General Education Program
   - SPC 1600C Fundamentals of Oral Comm
   - PSY 2013 Gen Psychology or
   - SYG 2000 General Sociology
   - MAC 1104 College Algebra or
   - MGF 1203 Finite Math
   - MAE 2801 Elementary School Math

4. Education Core Requirements: (9 hrs)
   - EDG 4323 Professional Teaching Practices
   - EDF 4603 Anal. of Critical Issues in Education
   - EDF 4214 Classroom Learning Principles

5. Internship I Prerequisites (9 hrs)
   - EEX 3243 Teach Emotionally Handicapped
   - EED 4243 Teach Emotionally Handicapped
   - EED 4243 Teach Emotionally Handicapped
   - EED 4243 Teach Emotionally Handicapped
   - EED 4243 Teach Emotionally Handicapped
   - EED 4243 Teach Emotionally Handicapped

6. Specialization Core Requirements (15 hrs)
   - EEX 3241 Methods Academic Skills ExEd
   - EEX 3241 Methods Academic Skills ExEd
   - EEX 3241 Methods Academic Skills ExEd
   - EEX 3241 Methods Academic Skills ExEd
   - EEX 3241 Methods Academic Skills ExEd
   - EEX 3241 Methods Academic Skills ExEd

7. Specialization Area (Choose One)

   Emotionally Handicapped (9 hrs)
   - EED 3250 Behavioral Issues of the E H
   - EED 4243 Teach Emotionally Handicapped
   - EED 4210 Curriculum & Prog Adaptation EH

   Specific Learning Disability (9 hrs)
   - ELD 4011 Intro. to Specific Learning Disab
   - LAE 4313 Lang Arts in Elem Schools
   - ELD 4242 Program Planning for SDL

   Mentally Handicapped (9 hrs)
   - EMR 4011 Intro. to Mental Retardation
   - LAE 4314 Lang Arts in Elem Schools
   - EMR 4372 Curr Methods & Materials for Retarded Persons

8. Internship I (EDE3943.01) (6 hrs)
9. Internship II (ESE4943.04) (12 hrs)
A student must have completed the portfolio process for Internship II Satisfactorily before student teaching.

10. Electives (w/advisor's approval) (variable)

11. Foreign Language Requirements (0-6 hrs)
State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

12. Departmental Exit Requirements
Achieve a 2.5 GPA in all courses within the major

13. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

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.
FILM PRODUCTION/SCREENWRITING: BACHELOR OF ARTS

College of Arts and Sciences
Film & Animation, Communication Building, (407) 823-3456
E-mail: film@ucf.edu
Mr. D. Franklin
Limited Access program.

Admission Requirements
- Students should apply to become Film & Animation majors only after completing all requirements for admission.
- Applications to become a Film & Animation major are required by January 15 for admission to the subsequent Fall term.
- Attain an overall minimum 3.00 GPA based on a minimum of 45 semester hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis.
- Submission of a written essay
- Provide a portfolio or additional information

Degree Requirements
- Students are required to maintain an overall 3.0 GPA after acceptance into the Film & Animation program
- 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 & Animation program
- 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.
- 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 1104 College Algebra or MGF 1203 Finite Mathematics 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 (3 hrs)
   FIL 2400* History of the Motion Picture 3 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (27 hrs)
   FIL 3207 Introduction to Film Production 3 hrs
   FIL 3106 Film and TV Writing 3 hrs
   FIL 4251 Post-Production workshop 3 hrs
   FIL 3231 Documentary Film 3 hrs
   FIL 3503 Film Theory 3 hrs
   FIL 4111 Intermediate Scriptwriting 3 hrs
   FIL 4202 Intermediate Film Production 3 hrs
   FIL 4221 Film Director 3 hrs
   FIL 4607 Production Management 3 hrs

4. Upper level Core requirements (6 hrs)
   - Complete both courses within one of the 2 emphasis areas.
   - Must complete the Core before taking these courses

- An area of emphasis must be declared prior to the senior year.
  Production
  FIL 4203 Advanced Film Production 3 hrs
  FIL 4204 Film Production Workshop 3 hrs
  Screenwriting
  FIL 4112 Advanced Scriptwriting 3 hrs
  FIL 4115 Scriptwriting Workshop 3 hrs

5. Restricted Upper Division Elective (12 hrs)
   Select from upper level FIL courses designated for majors (excluding core courses)

6. Departmental Exit Requirements
   - To avoid delaying graduation, you must request a review of requirements before registering for your last term.
   - A student must maintain at least an average GPA of 3.0 in the Film program.
   - Computer Competency met by FIL 4111.

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Animation, Art, Creative Writing, Music, Theatre, Radio/TV

Related Minors: Art, Creative Writing, Music, Theatre

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites:
- FIL 2400*: may substitute FIL 3XXX Film History to 1945, and FIL 3XXX Film History 1945 to present.
FINANCE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

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 1104 College Algebra 3 hrs
     - Select CGS 2100C Comp Fund'nts for Bus 3 hrs
   - D. Social Foundations
     - Select ECO 2013 Principles of Economics I 3 hrs
     or
     - ECO 2023 Principles of Economics II 3 hrs
     - Select one: PSY 2013, SYG 2000, ANT 2003 3 hrs
   - E. Science Foundation 6 hrs

2. Common Program Prerequisites
   - ACG 2021 Principles of Financial Accounting
   - ACG 2071 Principles of Managerial Accounting
   - ECO 2013 Principles of Macroeconomics
   - ECO 2023 Principles of Microeconomics
   *MAC 2233 Concepts of Calculus
   *STA 2023 (or QMB 2100) Statistics
   **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" or better must take ECO 3401.

3. Required for All Business Majors (33 hrs)
   - Common Body of Knowledge
     First Semester in the College of Business Administration:
     **Students must demonstrate competency in micro-computer applications during their first semester in College of Business Administration courses. Students who fail to demonstrate competency will not be permitted to continue enrollment in the business program.
     - GEB 3031 Cornerstone 6 hrs
     - ECO 3401 Quantitative Business Tools 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
     - MAN 3504 Quality and Productivity Management 3 hrs
     - MAR 3023 Marketing 3 hrs
     Last Semester:
     - GEB 4361 Business in the International Environment 3 hrs
     - MAN 4720 Strategic Management 3 hrs

4. Special College and/or Department Requirements
   - The Finance Major Curriculum consists of a total of 27 semester hours in addition to FIN 3403. Students are required to earn a grade of "C" 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 3140, REE 3043, & REE 4433.
   - FIN 3140 (Personal Finance and Investments) and REE 3043 (Fundamentals of Real Estate) are not usable for credit by Finance Majors.
   - Students wanting to major in Finance must apply for admission to the major.
   - Students not in attendance at the first meeting of any College of Business course may be dropped from the course. 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.
   - A transfer student to this program must take a minimum of twelve (12) semester hours in finance at UCF.

5. Required Courses
   - FIN 3303 Financial Markets 3 hrs
   - FIN 3404 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 4503 Speculative Financial Markets 3 hrs
     - FIN 4604 International Financial Management 3 hrs
     - FIN 4424 Adv Topics in Financial Management 3 hrs
     - REE 4303 Real Estate Investment Analysis 3 hrs

6. Restricted Electives
   - Select three of the following:*
     - ACG 3101 Intermediate Financial Accounting I 3 hrs
     - ACG 3111 Intermediate Financial Accounting II 3 hrs
     - ACG 3361 Cost Accounting 3 hrs
     - ACG 4401 Accounting Systems I 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 4313 Management of Financial Institutions 3 hrs
     - FIN 4324 Commercial Bank Management 3 hrs
     - FIN 4503 Speculative Financial Markets 3 hrs
     - FIN 4514 Portfolio Analysis and Management 3 hrs
     - FIN 4604 International Financial Management 3 hrs
     - FIN 4424 Adv Topics in Financial Management 3 hrs
     - FIN 4906 Independent Study 3 hrs
     - FIN 4941 Internship 3 hrs
     - REE 4303 Real Estate Investment Analysis 3 hrs
     - REE 4303 Real Estate Appraisal 3 hrs
     - REE 4204 Real Estate Finance 3 hrs
     - REE 4433 Real Estate Law 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. Foreign Language Requirements (0-8 hrs)
   - Admission: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: None

8. University Minimum Exit Requirements
   - A 2.00 GPA in all work attempted (Overall, UCF, COB, Major)
   - 60 semester hours earned after any CLEP award
• 48 semester 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)

9. 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 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.
• 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 - FINANCE

Freshman
Fall 15 hrs Spring 15 hrs
ENC 1101* 3 ENC 1102* 3
Cult-Hist I* 3 Cult-Hist II* 3
SPC 1600C 3 Art/Music/Lit 3
***Elective 3 MAC 1104* 3
***Elective 3 CGS 2100C 3

Must complete 9 hours in a summer semester.

Sophomore
Fall 15 hrs Spring 15 hrs
ECO 2013* 3 ECO 2023* 3
ACG 2021* 3 ACG 2071* 3
Science 3 Science 3
Psy/Soc/Ant 3 ***Elective 3
***Elective 3 ***Elective 3

Finance majors must have "C" or better in each class in the major to include FIN 3403 and a 2.0 GPA in major.

Transfer students must complete a minimum of twelve (12) hours in Finance at UCF.

Senior
Fall 15 hrs Spring 15 hrs
**GEB 3031 6 FIN 3303 3
ECO 3401 3 FIN 3404 3
MAR 3023 3 ECO 3411 3
FIN 3403 3 MAN 3025 3

**Pass Computer Competency Exam in same term Cornerstone completed

***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.

* "C" or better grade required in each class
Must complete CLAST requirement
FOREIGN LANGUAGE
COMBINATION: BACHELOR OF ARTS

College of Arts and Sciences
Department of Foreign Languages & Literatures, FA 523
E-mail: foreignlanguage@ucf.edu
Dr. J. B. Fernández, (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 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.

Degree Requirements
- 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 a foreign language.
- Students must earn at least a "C" in each upper division foreign language course.
- 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 students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Students must see their departmental advisor for counseling and schedule approval before registering.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics 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 (0-12 hrs)
   Completion of Intermediate level or proficiency.

3. Core requirements-first language (24 hrs)
   (French, German or Spanish)
   Composition (select one) 3 hrs
   SPN 3420* Composition
   FRE 3420* Composition
   GER 3420* Composition
   Oral Communication (select one) 3 hrs
   SPN 3760* Adv Spanish Oral Communication
   FRE 3760* Adv French Oral Communication
   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 9 hrs
   (chosen with departmental advisor)

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 9 hrs
   (chosen with departmental advisor)

5. Departmental Exit Requirements
   - Earn a grade of "C" or higher in at least 39 hrs of upper division Foreign Language courses
   - Students are required to take 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 by the department chair for equivalency credit. The student must provide all supporting information.
FOREIGN LANGUAGE EDUCATION - FRENCH: BACHELOR OF SCIENCE

College of Education  
Instructional Programs Department, ED346, (407) 823-2939  
Coordinator: Dr. David Gurney

Admission Requirements
- have on file in the University admissions office passing scores on all parts of the College Level Academic Skills Test (CLAST)  
- have on file in the University admissions office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)  
- present an overall GPA of 2.5  
- achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent  
- complete a formal application for admission to a particular teacher education program  
- be recommended by the faculty of the department of the student’s major  
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations  
      Select *SPC 1600C Fundamentals of Oral Comm  
      Select ENC 1101 Composition I  
      Select ENC 1102 Composition II  
   B. Cultural-Historical Foundations  
      Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020  
      Select one course from: ARH 2050, 2051; MUL 2010; THE 1020; REL 2300; PHI 2101, LIT 2110; LIT 2120  
   C. Mathematical Foundations  
      Select *MAC 1104 College Algebra or *MGF 1203 Finite Math  
      Select CGS 1060C Intro to Computer Science  
   D. Social Foundations  
      Select *PSY 2013 Gen Psych or *SYG 2000 Gen Sociology  
      Select ECO 2013 Principles of Economics or POS 2041 American National Government.
   E. Science Foundations  
      Select PSC 1121 Physical Science  
      Select BSC 1020 Biological Principles  
      * College Preprofessional Requirements  
      At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.  
      ** The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites (9 hrs)  
   EDF 2005 Intro to Education  
   *EDG 2701 Teaching Diverse Populations  
   EME 1040 Intro to Technology  

*In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)  
*15 hours of General Program Prerequisites are required for admission to the upper division major and must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation; culture and civilization in the target language.

3. Preprofessional Requirements
* See General Education Program  
   SPC 1600C Fundamentals of Oral Comm  
   PSY 2013 General Psychology  
   SYG 2000 General Sociology  
   MAC 1104 College Algebra or  
   MGF 1203 Finite Math

4. Specific Common Program Prerequisites (6 hrs)  
   FRE 2200 Intermed French Lang & Civ I  
   FRE 2201 Intermed French Lang & Civ II  
   Must demonstrate proficiency by testing or completion of intermediate level courses.

5. Education Core Requirements (9 hrs)  
   EDG 4323 Professional Teaching Practices  
   EDF 4603 Anal. Critical Issues in Education  
   EDF 4214 Classroom Learning Principles

6. Internship I (ESE3940) (6 hrs)  
   * A student must have completed the portfolio process for Internship I satisfactorily before student teaching.  
   * At least 50% of all required foreign language and foreign language methods courses must be completed before doing Internship I.

7. Specialization Requirements (20 hrs)  
   FLE 3063 Foreign Lang as Human Behavior  
   FLE 4360 Foreign Language Instructional Analysis  
   FLE 4314 Foreign Language K-6  
   FRE 3240 French Composition  
   FRE 3244 French Conversation  
   FRW 3100 Survey French Lit I  
   FRW 3101 Survey French Lit II

8. Upper Division Restricted Electives (12 hrs)  
   Select 4 upper division courses in French with advisor's approval.

9. Other Cognate Requirements (6 hrs)  
   LIN 3010 Principles of Linguistics or  
   LIN 4440 Sounds & Forms of Language or  
   LIN 4801 Language and Meaning  
   ANT 2410 Cultural Anthropology

10. Internship II (ESE4943) (12 hrs)  
    * A student must have completed the portfolio process for Internship II satisfactorily before student teaching.  
    * At least 80% of all required foreign language courses and all methods courses must be completed before registering for Internship II.

11. Foreign Language Requirements (0-6 hrs)  
    State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single
12. Departmental Exit Requirements:
Achieve a 2.5 GPA in all courses within the major.

13. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 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.
FOREIGN LANGUAGE EDUCATION—SPANISH: BACHELOR OF SCIENCE

College of Education Instructional Programs Department, ED346, (407) 823-2939
Coordinator: Dr. David Gurney

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a “C” or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student’s major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select *SPC 1600C Fundamentals of Oral Comm
      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
      9 hrs
   B. Cultural-Historical Foundations
      Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or
      AMH 2010, AMH 2020
      Select one course from: ARH 2050, 2051; MUL 2010, THE 1102; REL 2300, PHI 2010; LIT 2110, LIT 2120
      9 hrs
   C. Mathematical Foundations
      Select *MAC 1140 College Algebra or
      *MGF 1203 Finite Math
      Select CGS 1000C Intro to Computer Science
      6 hrs
   D. Social Foundations
      Select *PSY 2013 Gen Psych or
      *SYG 2000 Gen, Sociology
      Select ECO 2013 Principles of Economics or
      POS 2041 American National Government.
      6 hrs
   E. Science Foundations
      Select PSC 1121 Physical Science
      Select BSC 1020 Biological Principles
      6 hrs
   * College Preprofessional Requirements.
   ** At least one course taken to meet the Natural Science requirements in General Education and/or Prerequisites must include a laboratory component.
   *** The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education
   *EDG 2701 Teaching Diverse Populations
   EME 1040 Intro to Technology
   9 hrs

*In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. These courses must be identified in the college/university catalog.

- 15 hours of General Program Prerequisites are required for admission to the upper division major and must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation, culture and civilization in the target language.

3. Preprofessional Requirements
* See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSY 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra or
   MGF 1203 Finite Math

4. Specific Common Program Prerequisites (6 hrs)
   SPN 2230 Intermed Spanish Lang & Civ I 3 hrs
   SPN 2231 Intermed Spanish Lang & Civ II 3 hrs
   Must demonstrate proficiency by testing or completion of intermediate level courses.

5. Education Core Requirements (9 hrs)
   EDF 4603 Anal. Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs

6. Internship I (ESE 3940) (6 hrs)
   A student must have completed the portfolio process for Internship I satisfactorily before student teaching.
   At least 50% of all required foreign language and foreign language methods courses must be completed before registering for Internship I.

7. Specialization Requirements (20 hrs)
   FLE 3063 For Language as Human Behavior 2 hrs
   FLE 4360 For Language Instructional Analysis 4 hrs
   FLE 4314 For Language K-6 2 hrs
   SPN 4410 Advanced Spanish Conversation 3 hrs
   SPN 3420 Spanish Composition 3 hrs
   SPW 3100 Survey Spanish Lit I 3 hrs
   SPW 3101 Survey Spanish Lit II 3 hrs

8. Upper Division Restricted Electives (12 hrs)
   Select 4 upper division courses in Spanish with advisor’s approval.

9. Other Cognate Requirements (6 hrs)
   LIN 3010 Principles of Linguistics or 3 hrs
   LIN 4440 Sounds & Forms of Language or 3 hrs
   LIN 4801 Language and Meaning 3 hrs
   ANT 2410 Cultural Anthropology 3 hrs

10. Internship II (ESE 4943) (12 hrs)
    A student must have completed the portfolio process for Internship II satisfactorily before student teaching.
    At least 80% of all required foreign language courses and all methods courses must be completed before registering for Internship II.

11. Foreign Language Requirements (6-06 hrs)
    State University System foreign language admission requirement:
    2 years in high school or 1 year of college instruction in a single
foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

12. Departmental Exit Requirements  
Achieve a 2.5 GPA in all courses within the major

11. University Minimum Exit Requirements  
- A 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 semester hours in regular courses completed at UCF  
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 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.
FORENSIC SCIENCE-ANALYSIS TRACK: BACHELOR OF SCIENCE

College of Arts and Sciences
Department of Chemistry, CH 221, (407) 823-2246
Dr. W. W. McGee

Admission Requirements None

Degree Requirements
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- 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 2233 Applied Calculus I 3 hrs
      Select STA 2023 Statistical Methods I 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations
      Select PHY 2053 College Physics (PR:MAC 1104 and MAC 1114) 4 hrs
      Select BSC 2010C General Biology 4 hrs

2. Common Program Prerequisites (26 hrs)
   BSC 2010C General Biology 4 hrs
   CHM 2045C* Chem Fund I 4 hrs
   CHM 2046 & L Chem Fund II with Lab 4 hrs
   MAC 2253* Applied Calculus I 3 hrs
   MAC 2254* Applied Calculus II 3 hrs
   PHY 2053C* College Physics I 4 hrs
   PHY 2054C* College Physics II 4 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (54 hrs)
   CHM 2210 Organic Chem. I 3 hrs
   CHM 2211 & L Organic Chem II with lab 5 hrs
   CHM 3120C Analytical Chemistry 5 hrs
   COP 2200 Computer Programming 3 hrs
   STA 2023 Statistical Methods I 3 hrs
   CHS 3501 Intro to Forensic Science 3 hrs
   CHS 3505C Forensic Microscopy 3 hrs
   CHS 3550C Forensic Analysis of Controlled Subs 3 hrs
   CHS 3511C Trace Evidence 3 hrs
   CHS 3595 Forens Sci in the Courtroom 3 hrs
   CHS 3533C Foren Serology: Classical Meth 3 hrs
   CHS 4591 Forensic Science Internship 6 hrs
   CHM 3410 Physical Chemistry I 4 hrs
   CHM 4130C Advanced Analytical Chemistry 4 hrs
   Select one course
   ENC 3211 Theory & Prac Tech Writing 3 hrs

4. Restricted Electives (12 hrs)
   Select 12 hours
   MCB 3020C General Microbiology
   BCH 4053 Biochemistry I
   BCH 4054 Biochemistry II
   BCH 4103L Biochemical Methods Lab

5. Departmental Exit Requirements
   - Achieve at least a "C" GPA (2.0) in all UCF Chemistry courses and an overall 2.0 GPA in all Forensic Science 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.
   - Computer Competency met by a Computer Science course or by departmental assessment.

6. Foreign Language Requirements (0-8 hrs)
   Admission: 2 years high school, or 1 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable).

Total Semester Hours Required 128 hours

Related Programs: Chemistry, Forensic Science-Serology Track

Related Minors: Chemistry

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- CHM 2045: may use CHM 1040 plus CHM 1041
- MAC 2253 & 2254: may use MAC 2311 & 2312
- PHY 2053 & 2054: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211)
FORENSIC SCIENCE-SEROLOGY TRACK: BACHELOR OF SCIENCE

College of Arts and Sciences
Department of Chemistry, CH 221, (407) 823-2246
Dr. W. W. McGee

Admission Requirements  None

Degree Requirements
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry
- 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 2233 Applied Calculus I 3 hrs
      Select STA 2023 Statistical Methods I 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations
      Select PHY 2053 College Physics (PR:MAC 1104 and MAC 1114) 4 hrs
      Select BSC 2010C General Biology 4 hrs

2. Common Program Prerequisites (26 hrs)
   BSC 2010C General Biology 4 hrs
   CHM 2045C* Chem Fund I 4 hrs
   CHM 2046 & L Chem. Fund II with lab 4 hrs
   MAC 2253* Applied Calculus I 3 hrs
   MAC 2254* Applied Calculus II 3 hrs
   PHY 2053C* College Physics I 4 hrs
   PHY 2054C* College Physics II 4 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (43 hrs)
   CHM 2210 Organic Chem. I 3 hrs
   CHM 2211 & L Organic Chem. II with lab 5 hrs
   CHM 3120C Analytical Chemistry 5 hrs
   COP 2200 Computer Programming 3 hrs
   STA 2023 Statistical Methods I 3 hrs
   CHS 3501 Intro to Forensic Science 3 hrs
   CHS 3505C Forensic Microscopy 3 hrs
   CHS 3530C Foren Anal of Controlled Subs 3 hrs
   CHS 3511C Trace Evidence 3 hrs
   CHS 3595 Foren Sci in the Courtroom 3 hrs
   CHS 3533C Foren Serology: Classical Meth 3 hrs
   CHS 4591 Forensic Science Internship 6 hrs

4. Required courses (32 hrs)
   MCB 3020C General Microbiology 5 hrs
   BCH 4053 Biochemistry I 3 hrs
   BCH 4054 Biochemistry II 3 hrs
   PCB 3233 & L Immunology and Lab 4 hrs
   BCH 4103L Biochemical Methods Lab 2 hrs
   PCB 3523 Molecular Biology I 3 hrs
   PCB 4524 Molecular Biology II 3 hrs
   BSC 3404 Quantitative Biological Methods 3 hrs
   CHS 4534 Foren Serology: Molec Methods 3 hrs
   PCB 3063 Genetics 3 hrs

5. Departmental Exit Requirements
   - Achieve at least a "C" GPA (2.0) in all UCF Chemistry courses and an overall 2.0 GPA in all Forensic Science 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.
   - Computer Competency met by a Computer Science course or by departmental assessment.

6. Foreign Language Requirements (0-8 hrs)
   Admission: 2 years high school, or 1 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable).

Total Semester Hours Required 128 hours

Related Programs: Chemistry, Forensic Science-Analysis Track
Related Minors: Chemistry

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- CHM 2045*: may use CHM 1040 plus CHM 1041
- MAC 2253* & 2254*: may use MAC 2311 & 2312.
- PHY 2053* & 2054*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211)
FRENCH: BACHELOR OF ARTS

College of Arts and Sciences
Department of Foreign Languages & Literatures
FA 523, E-mail: foreignlanguage@ucf.edu
Dr. J. B. Fernández, (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 place the student in the first semester of the third year.
- Native French speakers or students who have received advanced education abroad must substitute select classes.

Degree Requirements
- 36 credits in French must be taken at the 3000 level or above
- At least 6 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
- Students must earn at least a "C" 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.
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics 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 (0-14 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 (18 hrs)
FRE 3420* Composition 3 hrs
FRE 3760* Adv French Oral Communication 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 (18 hrs)
French literature beyond the survey level (taught in French)
French courses 12 hrs

5. Departmental Exit Requirements
- Earn a grade of "C" or higher in at least 36 hours of upper division French courses
- Students are required to take a departmental exit exam
- Computer Competency met by CGS 1060 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 by the department chair for equivalency credit. The student must provide all supporting information.
GENERAL BUSINESS: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

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)
   - Communication Foundations: 9 hrs
   - Cultural and Historical Foundations: 9 hrs
   - Mathematical Foundations: 3 hrs
   - Select MAC 1104 College Algebra or ECO 2013 Principles of Economics I
   - Computer Fundamentals for Bus: 3 hrs
2. Common Program Prerequisites
   - ACG 2021 Principles of Financial Accounting: 3 hrs
   - ACG 2071 Principles of Managerial Accounting: 3 hrs
   - ECO 2013 Principles of Economics I: 3 hrs
   - ECO 2023 Principles of Economics II: 3 hrs
   - MAC 2233 Concepts of Calculus: 3 hrs
   - STA 2023 (or QMB 2100) Statistics: 3 hrs
   - CGS 2100C Computer Fundamentals for Business: 3 hrs
   - Students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401.

3. Required for All Business Majors (33 hrs)
   - Cornerstone: 6 hrs
   - Quantitative Business Tools I: 3 hrs
   - Legal & Ethical Environments of Business: 3 hrs
   - Quantitative Business Tools II: 3 hrs
   - Business Finance: 3 hrs
   - Management of Organizations: 3 hrs
   - Quality and Productivity Management: 3 hrs
   - Marketing: 3 hrs
   - Business in the International Environment: 3 hrs
   - Strategic Management: 3 hrs

4. Special college and/or department requirements:
   - Students wanting to major in General Business must apply for admission to the major
   - Within the College of Business Administration the first day of class is mandatory.
   - Final exams will be given during Exam Week.
   - A transfer student to this program must take a minimum of twelve

5. Two (2) additional courses beyond the Common Body of Knowledge:
   - One in Finance (FIN prefix) and one in Marketing (MAR prefix).
   - The one (1) required Finance course must be one of the four courses listed below. One or more of the remaining three courses in the list can be selected as restricted electives for students majoring in General Business. Other upper level Finance courses are also available as restricted electives for those students that would like to specialize in investments, corporate finance, institutions, or real estate. Please see a Finance Department advisor. (FIN 3403 is prerequisite for these four classes.)
     - FIN 3303 Financial Markets
     - FIN 3404 Intermediate Corporate Finance
     - FIN 3453 Financial Models
     - FIN 3504 Investment Analysis

6. Restricted Electives: A minimum of seven (7) additional courses from at least three (3) different departments (Accounting, Economics, Finance, Hospitality Management, Management, Marketing) taught in the College of Business Administration.

7. Students wishing to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.

8. Foreign Language Requirements (0-8 hrs)
   - Admission: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: None

9. University Minimum Exit Requirements
   - A 2.000 GPA in all work attempted (Overall, UCF, COB, Major)
   - 60 semester hours earned after any CLEP award
   - 48 semester 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. 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 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.
- 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 - GENERAL BUSINESS

#### Freshman

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<td>Cult-Hist I*</td>
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<td>Cult-Hist II*</td>
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<tr>
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<td>***Elective</td>
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<td>CGS 2100C</td>
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*Must complete 9 hrs in a summer semester*  

#### Sophomore

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<td>ACG 2071*</td>
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<tr>
<td>***Elective</td>
<td>3</td>
<td>***Elective</td>
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* "C" or better grade required in each class*  

*Must complete CLAST requirement*

*Transfer students must complete a minimum of twelve (12) hours in Business at UCF*  

*Select from list in catalog*

#### Junior

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<td>MAR 3023</td>
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<td>FIN 3403</td>
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<tr>
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<td>BUL 3130</td>
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**Pass Computer Competency Exam in same term Cornerstone completed**

*BUS Electives must be selected from at least three (3) different departments in the College of Business*

#### Senior

<table>
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<tr>
<th>Fall</th>
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<td>MAN 3504</td>
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<td>GEB 4361</td>
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GENERAL STUDIES TRACK:
BACHELOR OF ARTS OR
BACHELOR OF SCIENCE

College of Arts and Sciences
Liberal Studies Program, FA 207A
E-mail: generalstudies@ucf.edu
Dr. Donald E. Jones, (407) 823-0144

The General Studies Track 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. The program is administered through the College of Arts and Sciences and is designed for general studies education and academic flexibility. It recognizes that there are many combinations of courses which meet the needs of individual students.

Admission Requirements
None

Degree Requirements
- Students must earn at least a "C" 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)
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundations

2. Common Program Prerequisites (0 hrs)
None

3. Restricted Electives (36 hrs)
   - Students must complete two different subject area concentrations 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 strongly encouraged to take upper level courses in each area

   Arts
   - Art, Music, or Theatre

   Behavioral and Social Sciences
   - Anthropology, Psychology, Sociology, Political Science, Economics, Social Work

   Biological Sciences

   Business Administration

   Communication

   Computer Science

   Education

   Engineering

   Health

   Humanities
   - History, Philosophy, Humanities, Judaic Studies, or Religious studies

   Languages

   Letters
   - English, Foreign Literature, or Comparative Literature

   Mathematical Sciences
   - Mathematics and Statistics

   Physical Sciences

   Astronomy, Chemistry, Forensic Science, Physical Geography, Geology, Physics, or Meteorology.

   Public Affairs

   5. Required Minor (18 hrs minimum)
   - Student must complete a minor from those offered at UCF.

   Arts
   - a minor in Music, Theatre, Art History, Studio Art, or Community Arts

   Behavioral and Social Sciences
   - a minor in Political Science, Psychology, Anthropology, or Sociology, or Multicultural Studies

   Biological Sciences
   - a minor in Biology

   Business Administration
   - a minor in Business Administration, Economics, Hospitality Management, or Management Information Systems

   Communication
   - a minor in Interpersonal Communication Organizational Communication, or Mass Communication

   Computer Science
   - a minor in General Computer Science or Applied Computer Science

   Engineering
   - a minor in Space Studies, Aerospace Studies, or Military Science

   Health
   - a minor in Health Sciences, Health Services Administration, Communicative Disorders, or Molecular Biology and Microbiology

   Humanities
   - a minor in History, Philosophy, Judaic Studies, Religious Studies, or Multicultural Humanities

   Languages
   - a minor in French, German, Italian, Russian, or Spanish.

   Letters
   - a minor in Creative Writing, Literature, Linguistics, Technical Writing and Editing, or Writing

   Mathematical Sciences
   - a minor in Mathematics or Statistics

   Physical Sciences
   - a minor in Chemistry or Physics

   Public Affairs
   - a minor in Criminal Justice, Legal Studies, or Public Administration

   Interdisciplinary minors:
   - African American Studies
   - American Studies
   - Asian Studies
   - Canadian and Commonwealth Studies
   - Digital Media
   - Gerontology certificate
   - Judaic Studies (minor or certificate)
   - Latin American and Iberian Studies
   - Religious Studies
   - Russian Area Studies
   - Women's Studies

   6. Program Exit Requirements
   - A minimum GPA of 2.0 is required for all courses taken in each of the subject areas and minor
   - Computer Competency met by appropriate courses or departmental exam

   7. Foreign Language Requirements (0-8 hrs)
   Admission-BA: Met by graduation requirement
Admission - BS: 2 years high school, or 1 year college language (or equivalent proficiency exam) prior to graduation.

Graduation - BA: One year or equivalent proficiency exam.

Graduation - BS: One semester or equivalent proficiency exam, or one course with a multicultural dimension

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Liberal Arts Track

Related Minors: All minors

Transfer notes:
- "D" grades from other institutions do not meet departmental 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.
HEALTH INFORMATION MANAGEMENT: BACHELOR OF SCIENCE

College of Health and Public Affairs
Trailer 534 (407) 823-2359
Undergraduate Program Director: Carol Barr

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 February 1 of the year admission is sought
- UCF application must also be submitted by the program deadline of February 1st
- 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 2.50 and complete all program prerequisite courses with at least a grade of "C" (No CLEP, TSD or AP credit may be used for prerequisite courses)

Degree Requirements
- 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" in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program
- UCF Residency Requirement: 35 hours
- 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
   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations Select MAC 1104 6 hrs
      Select CGS 1060C and STA 2014
   D. Social Foundations 6 hrs
   E. Science Foundations Select BSC 2010C 6 hrs
      Select CHM 1032

2. Common Program Prerequisites (17 hrs)
   ZOO 3733C Human Anatomy* 4 hrs
   PCB 3703C Human Physiology* 4 hrs
   STA 2014 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 (70 hrs)
   APB 3600 Introduction to Pharmacology 3 hrs
   COM 3110 Business and Professional Communications 3 hrs
   HSA 3170 Health Care Finance 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 3 hrs
   MRE 3000 Foundations of Health Information Management 4 hrs
   MRE 3110 Health Record Organization & Management 5 hrs
   MRE 3800L Professional Practice Exp. I 2 hrs
   MRE 3810L Professional Practice Exp. II 2 hrs
   MRE 4202 Coding Procedures I 4 hrs
   MRE 4203 Coding Procedures II 3 hrs
   MRE 4304 Professional Development Issues in Health Information Management 3 hrs
   MRE 4312 Health Information Department Management 4 hrs
   MRE 4500 Performance Improvement 4 hrs
   MRE 4830L Professional Practice Exp. III 2 hrs
   MRE 4832L Professional Practice Exp. IV 2 hrs
   MRE 4835 Management Affiliation 5 hrs
   MRE 4218 Health Information Management Systems 3 hrs

4. Upper Division Restricted Electives None

5. Departmental Exit Requirements
A 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 Record Administrator.

6. Electives None

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: None

8. University Minimum Exit Requirements (120 hrs)
- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hrs of extension, correspondence, CLEP, credit by Exam and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs 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 2014 or any other statistics course) 3
- Computer Science for Business (CGS 1060 or any other computer science course) 3

### Four Year Plan of Study

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<thead>
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<th>Freshman Year*</th>
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<td>or AMH 2010</td>
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**Summer** 3 hrs
- PSY 2013 or SYG 2000 3
- or ANT 2003

*Plan your required 9 summer hours into your course of study

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<td>EUH 2001 or HUM 2230</td>
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<td>SPC 1600C</td>
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<td>or AMH 2020</td>
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**Summer** 8 hrs
- (Foreign Lang I) 4
- (Foreign Lang II) 4
- if not satisfied in high school

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<tr>
<td>HSC 4550**</td>
<td>3</td>
<td>MRE 3110</td>
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<tr>
<td>MRE 3000</td>
<td>4</td>
<td>MRE 3810L</td>
<td>2</td>
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<tr>
<td>MRE 3800L</td>
<td>2</td>
<td>APB 3600</td>
<td>3</td>
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<tr>
<td>HSC 3531**</td>
<td></td>
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</table>

**Summer** 8 hrs
- MAN 3025** 3
- MRE 4830L 2
- HSC 3640** 3

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>14 hrs</th>
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<tr>
<td>MRE 4312</td>
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<td>MRE 4304</td>
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<td>HSA 3170**</td>
<td>3</td>
<td>MRE 4218</td>
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<td>MRE 4500</td>
<td>4</td>
<td>MRE 4832L</td>
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<td>MRE 4203</td>
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<td>HSA 4700**</td>
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<tr>
<td></td>
<td></td>
<td>COM 3110</td>
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</table>

**Summer** 5 hrs
- MRE 4835 5

**NOTE:** The asterisked courses may be taken at any time during the two years. The MRE courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.
HEALTH SERVICES ADMINISTRATION: BACHELOR OF SCIENCE

College of Health and Public Affairs
TR 534  (407) 823-2359
Undergraduate Program Director: Tom Mendenhall

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" in each required course
- UCF Residency Requirement: 31 hours
- 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
   B. Cultural Historical Foundations  9 hrs
   C. Mathematical Foundations  6 hrs
      Select MAC 1104
      Select STA 2014 or 2023
   D. Social Foundations  6 hrs
      Select ECO 2023
   E. Science Foundations  6 hrs

2. Common Program Prerequisites  (9 hrs)
   CGS 3000C  Computer Fund for Business  3 hrs
      Applications*
   ECO 2023  Principles of Economics (Micro)  GEP
   ACG 2021  Financial Accounting  3 hrs
   ACG 2071  Managerial Accounting  3 hrs

3. Core Requirements  (33-39 hrs)
   STA 2014 or 2023  Statistical Methods  GEP
   HSA 3122  U.S. Health Care Systems  3 hrs
   ECO 2013  Principles of Economics I  3 hrs
   MAN 3025  Management of Organizations  3 hrs
   MAR 3023  Marketing  3 hrs
   HSC 4500  Epidemiology  3 hrs
   HSC 4564  Health Care Needs of the Elderly  3 hrs
   HSC 3531  Medical Terminology  3 hrs
   HSC 4651  Health Care Ethics  3 hrs
   HSC 3640  Health Law  3 hrs
   HSA 4180  Organization and Management of
      Health Agencies  3 hrs
   HSA 4193  Health Care Automation  3 hrs
   HSA 3170  Health Care Finance  3 hrs
   HSA 4700  Health Science Research Methods  3 hrs
   HSA 4120  Community Health Services  3 hrs

4. Upper Division Restricted Electives  None

5. Departmental Exit Requirements  (120 hrs)

6. Electives  (variable)

Students are encouraged to work on courses that will enhance their
background in the health care industry. These may be used to build
minors offered by the University. Examples include: Business,
Computer Sciences, Information Systems, and Public
Administration. Courses leading to a Certificate in Gerontology are
appropriate. Electives in advanced scientific, clinical or quantitative
subjects are also advisable.

7. Foreign Language Requirements  (0-8 hrs)
   Admissions: Two (2) years of one foreign language in high
   school, or one (1) year of one foreign language in college (or
   equivalent proficiency exam) prior to graduation.
   Graduation: None

8. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP,
     Credit by Exam and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the
     CLAST and 9 hrs of Summer credit (if applicable)

Total Semester Hours Required  120 hrs

Related Programs: Gerontology Certificate, Business, Public
Administration, Health Information Management

Related Minors: Business, Computer Sciences, Information
Systems, and Public Administration. Courses leading to a Certificate
in Gerontology are appropriate. Electives in advanced scientific,
clinical or quantitative subjects are also advisable.

Transfer Notes:
Students with an Associate of Science degree in a health care clinical
discipline may receive up to 30 hours of directed field experience.
Students will be evaluated by their academic advisor.
Generic students without the Associate of Science degree should
select elective hours with their advisor and complete the general
education program or AA degree program.

Computer Science (CGS 1060 or any other CGS
computer science course)  3 hrs

Honors
Honors Option Requires:
- Completion of a 3 credit directed readings course
- Completion of a 3 credit thesis course
- Open to students with a 3.5 GPA in Health Services
  Administration
- Cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12
  graded upper division hours at UCF

Four Year Plan of Study

<table>
<thead>
<tr>
<th>Freshman Year*</th>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>3</td>
<td>ENC 1102</td>
<td>3</td>
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</tr>
<tr>
<td>PSY 2013 or SYG 2000</td>
<td>3</td>
<td>ECO 2013</td>
<td>3</td>
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<tr>
<td>or ANT 2003</td>
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<td>PSC 1121 or CHLM 1020</td>
<td>3</td>
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<tr>
<td>EUH 2000 or HUM 2211</td>
<td>3</td>
<td>EUH 2001 or HUM 2230</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or AMH 2010</td>
<td></td>
<td>AMH 2020</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAC 1104</td>
<td>3</td>
<td>SPC 1600C</td>
<td>3</td>
<td></td>
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<tr>
<td>One course: ARH 2050,</td>
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209
*Plan your required 9 summer hours into your course of study

### Sophomore Year

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<th>Fall</th>
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<tr>
<td>STA 2014 or 2023</td>
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<td>HSC 3640</td>
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<tr>
<td>CGS 2100C</td>
<td>3</td>
<td>HSC 3531</td>
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<tr>
<td>BSC 1020</td>
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<td>ECO 2023</td>
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<td>HSA 3122</td>
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<tr>
<td>HSC 2000</td>
<td>2</td>
<td>Elective</td>
<td>3</td>
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**Summer**

- 8 hrs
  - (Foreign Lang I) 4
  - (Foreign Lang II) 4
  - if not satisfied in high school

### Junior Year

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<tr>
<th>Fall</th>
<th>15 hrs</th>
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<tr>
<td>HSC 4500</td>
<td>3</td>
<td>HSA 4193</td>
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<td>HSC 4651</td>
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<td>HSA 3170</td>
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<tr>
<td>MAR 3023</td>
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<td>MAN 3025</td>
<td>3</td>
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<tr>
<td>HSA 4120</td>
<td>3</td>
<td>ACG 2071</td>
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<td>ACG 2001</td>
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### Senior Year

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<tr>
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<td>HSA 4180</td>
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<td>Elective</td>
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<tr>
<td>Elective</td>
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**Notes:**
Students are urged to have access to a personal computer, modem, and appropriate software to interact with the University and professors.

The HSA curriculum is currently under review and revision. Please contact the Department of Health Professions and Physical Therapy for any changes.
3 of the four geographic regions. 18 hrs (must be taken within the History Department)

3. Core Requirements
   Select three hours of approved History courses 3 hrs
   Select six hours of approved History courses within
   AMH 2020* US History: 1492-1877 3 hrs
   AMH 2020* US History: 1877-Present 3 hrs
   Select from GEP list 3 hrs
   Select one sequence
   EUH 2000, 2001 Western Civilization I & II 6 hrs
   WOH 2012, 2022 World Civilization I & II 6 hrs

4. Upper Division Restricted Electives (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

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 “C” GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Humanities

Related Minors: African-American Studies, American Studies, Asian Studies, Canadian and Commonwealth Studies, History, Humanities, Latin American and Iberian Area Studies, Russian Area Studies, Women’s Studies

Transfer notes:
   - “D” grades from other institutions do not meet departmental 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 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.
HOSPITALITY MANAGEMENT:
BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

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
     - ACG 2021 Principles of Financial Accounting (9 hrs)
   B. Cultural and Historical Foundations
     - ACG 2071 Principles of Managerial Accounting (9 hrs)
   C. Mathematical Foundations
     - Select MAC 1104 College Algebra (3 hrs)
     - Select CGS 2100C Computer Fundamentals for Bus (3 hrs)
   D. Social Foundations
     - Select ECO 2013 Principles of Economics I (3 hrs)
     - or
     - ECO 2023 Principles of Economics II (3 hrs)
     - Select one: PSY 2013, STG 2000, ANT 2003 (3 hrs)
   E. Science Foundation
     - Select one: PHY 2013, PHY 2023, PHY 2031, PHY 2043 (6 hrs)

2. Common Program Prerequisites
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Principles of Macroeconomics
   ECO 2023 Principles of Microeconomics
   *MAC 2233 Concepts of Calculus
   *STA 2023 (or QMB 2100) Statistics
   *CGS 2100 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" or better must take ECO 3401.

3. Required for All Business Majors (33 hrs)
   Common Body of Knowledge
   First Semester in the College of Business Administration:
   **Students must demonstrate competency in micro-computer applications during their first semester in College of Business Administration courses. Students who fail to demonstrate competency will not be permitted to continue enrollment in the business program.
   GEB 3031 Cornerstone (6 hrs)
   ECO 3401 Quantitative Business Tools I (3 hrs)

   First or subsequent semesters depending on major:
   HFT 3600 Legal Environment of Hospitality/Tourism (3 hrs)
   ECO 3411 Quantitative Business Tools II (3 hrs)
   FIN 3403 Business Finance (3 hrs)
   MAN 3025 Management of Organizations (3 hrs)
   MAN 3504 Quality and Productivity Management (3 hrs)
   MAR 3023 Marketing (3 hrs)

   Last Semester:
   GEB 4361 Business in the International Environment (3 hrs)
   MAN 4720 Strategic Management (3 hrs)

4. Special College and/or Department Requirements:
   - Students seeking to major in Hospitality Management must apply for admission to the major
   - Students not in attendance at the first meeting of any College of Business course may be dropped from the course. 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
   - A transfer student to this program must take a minimum of twelve (12) hours in hospitality management at UCF
   - A cooperative work experience of 800 hours is a graduation requirement

5. Required Courses: (18 hrs)
   HFT 3540 Guest Services Management (3 hrs)
   HFT 4752 Guest Services Management II (3 hrs)
   FSS 3223 Hospitality Enterprises Management I (3 hrs)
   HFT 4210 Hospitality Enterprises Management II (3 hrs)
   HFT 4250C Hotel/Motel Management & Op'ns (3 hrs)
   HFT 4717 Hospitality Operations II (3 hrs)

6. Restricted Electives: Hospitality major should select any three (3) courses taught in the Hospitality Management Department and includes the following: FSS 3120, FSS 3301, FSS 3232C, FSS 3241, FSS 4284C, HFT 4473, HFT 4722, HFT 4735, HFT 4753, HFT 4754, HFT 4860, HFT 4932.

7. Hospitality Management Cooperative Education (0 hrs)
The cooperative education requirement provides students the opportunity to see how classroom theory is applied to the world of work. Hospitality students must complete a minimum of 800 clock hours (equivalent to 20 full time weeks) of paid study-related work experience in a hospitality or tourism enterprise. All work related experiences must be approved in advance by the departmental co-op advisor.

8. Foreign Language Requirements (0-8 hrs)
   Admission: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

9. University Minimum Exit Requirements
   - A 2.000 GPA in all work attempted (Overall, UCF, COB, Major)
   - 60 semester hours earned after any CLEP award
   - 48 semester 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. 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 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.

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 luse of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - HOSPITALITY MANAGEMENT

Freshman

<table>
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<th>Fall</th>
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<th>Spring</th>
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<tr>
<td>ENC 1101*</td>
<td>3</td>
<td>ENC 1102*</td>
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<tr>
<td>Cult-Hist 1*</td>
<td>3</td>
<td>Cult-Hist II*</td>
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<tr>
<td>SPC 1600C</td>
<td>3</td>
<td>Art/Music/Lit</td>
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<tr>
<td>***Elective</td>
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<td>MAC 1104*</td>
<td>3</td>
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<tr>
<td>***Elective</td>
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<td>CGS 2100C</td>
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Must complete 9 hrs in a summer semester

Sophomore

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<tbody>
<tr>
<td>ECO 2013*</td>
<td>3</td>
<td>ECO 2023*</td>
<td>3</td>
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<tr>
<td>ACG 2021*</td>
<td>3</td>
<td>ACG 2071*</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Psy/Soc/Ant</td>
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<tr>
<td>***Elective</td>
<td>3</td>
<td>***Elective</td>
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</table>

* "C" or better grade required in each class

Must complete CLAST requirement

Transfer students must complete a minimum of twelve (12) hours in Hospitality Management at UCF.

Cooperative work experience of 800 clock hours

SEE CO-OP Office and HM Advisor

Junior

<table>
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<th>Fall</th>
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<th>Spring</th>
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<tr>
<td>**GEB 3031</td>
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<td>FIN 3403</td>
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<td>ECO 3401</td>
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<td>FSS 3223</td>
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<td>MAR 3023</td>
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<td>HFT4250C</td>
<td>3</td>
<td>MAN 3025</td>
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| **Pass Computer Competency Exam in same term Cornerstone completed**

Senior

<table>
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<th>Fall</th>
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<th>Spring</th>
<th>15 hrs</th>
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<tr>
<td>ECO 3411</td>
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<td>MAN 4720</td>
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<tr>
<td>MAN 3504</td>
<td>3</td>
<td>HFT 4717</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4752</td>
<td>3</td>
<td>GEB 4361</td>
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</table>

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.
HUMANITIES: BACHELOR OF ARTS

College of Arts and Sciences
Philosophy Department, FA 411, E-mail: philosophy@ucf.edu
Dr. D. White, (407) 823-2273

Admission Requirements None

Degree Requirements
- Students must earn at least a "C" in each required course.
- 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 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 3 hrs
   C. Mathematical Foundations
      Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics 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
   None

3. Core requirements (18 hrs)
   European history, literature or philosophy
      6 hrs
      Select from EUH 3112, 3142, 3235, LIT 3082, 3313, 3383, 4043, ENL 4220, 4311, 4333, 4341, 4262, PHI 3700, 3803, PHP 3786, PHI 4400, 4420, HUM 4301, 4302, 4303
   Asian culture or philosophy
      6 hrs
      Select from HUM 3320, 3401, ASH 4404, 4442, ANT 3360, 3363
   Music appreciation or theory
      3 hrs
      Select from MUL 2010, 2016
   Mythology
      3 hrs
      Select from CLA 3850, 3851

4. Upper Division Restricted Electives (30 hrs)
   Select courses within one of the two tracks, subject to departmental advisor approval. Majors with at least a 3.0 GPA are encouraged to take at least one Honors seminar, selected with the help of the departmental advisor.

   Cultural Studies Track
   Ancient Greece and Rome
      6 hrs
      Select from HUM 3431, 3432, 4301
   Hindu, Islamic, Judaic, or Christian culture
      6 hrs
      Select from HUM 3418, 3417, 3553, JST 3100, 3401, 3402, 3751, HUM 4303
   History of philosophy
      6 hrs
      Select from PHI 3100, 3400, 3601
   History of Art
      6 hrs
      Select from ARH 3520, 3530, 4545, 4170, 4310, 4350, 4430, 4450, 4892, 4655, HUM 4301
   Gender studies
      3 hrs
      Select from PHI 3022, PHM 3123, ANT 3302,

   General Studies Track
   Ancient Greece and Rome
      6 hrs
      Select from HUM 3431, 3432, 4301
   Hindu, Islamic, Judaic, or Christian culture
      6 hrs
      Select from HUM 3418, 3417, 3553, JST 3100, 3401, 3402, 3751, HUM 4303
   History of philosophy
      6 hrs
      Select from PHI 3100, 3400, 3601
   History of Art
      6 hrs
      Select from ARH 3520, 3530, 4545, 4170, 4310, 4350, 4430, 4450, 4892, 4655, HUM 4301
   Gender studies
      3 hrs
      Select from PHI 3022, PHM 3123, ANT 3302,

5. Departmental Exit Requirements (0 hrs)
   - Maintain a minimum GPA of 2.0 in upper division required courses
   - Computer Competency met by CGS 1060C or a departmental exam

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.
   Note: Students with at least a 3.0 GPA may take Honors Classical Greek with the consent of the departmental advisor

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regularly courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Philosophy

Related Minors: Philosophy, Humanities

Transfer notes:
- "D" grades from other institutions do not meet departmental 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.
INDUSTRIAL ENGINEERING:
BACHELOR OF SCIENCE

College of Engineering
Industrial Engineering & Management Systems (IEMS)
Department, ENGR 307C, (407) 823-2204, FAX: (407) 823-3413, Home Page: http://ie.engr.ucf.edu/
Dr. Bill Thompson, E-Mail: wthompso@mail.ucf.edu

Admission Requirements:
All entering students are required by UCF 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. Each entering student should plan to attend Orientation at the earliest date offered, and must ensure that required transcripts have been submitted to the Admissions Office well in advance of the selected orientation date. Transcripts require processing, and this information must be available to engineering advisors at Orientation to assist students in selecting and registering for appropriate first-semester classes.

Degree Requirements

- The State University System requires most students to complete a minimum of 9 semester hours during summer terms prior to graduation. See the section, Summer Attendance Requirement, elsewhere in this catalog.
- Engineering students are required to complete at least 32 semester hours of regularly-scheduled 3XXX- or 4XXX-level courses specifically in the selected major.
- 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 (min 36 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. Using these substitutions will help the engineering student to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems are encouraged to complete the GEP and the Common Program Prerequisites before transferring.
- Beginning freshman engineering students must complete the UCF GEP for Engineering Students as detailed in paragraphs A. through E. below. Those students who have not completed a college preparatory course of study in high school may be required to complete additional prerequisite courses before taking specific courses shown.
- Students who are transferring to the UCF College of Engineering and who have completed the general education program at a State of Florida public institution must complete the UCF GEP for Engineering Students as detailed in paragraphs A. through E. below.
- Students who have completed the general education requirements at any of the Florida public institutions have, by law, met the UCF GEP requirements and may begin appropriately enrolling in Common Program Prerequisites and Courses Required for the Major as shown in paragraphs 2. and 3. below.

A. Communication Foundations 9 hrs

1. Take ENC 1101
2. Take ENC 1102
3. SPC 1016 is the preferred substitute for SPC 1600C for engineering students.
See the descriptions of these courses in the section, Alphabetical Listing of Courses, later in this catalog.

B. Cultural and Historical Foundations 9 hrs
Engineering students should meet this requirement as it is described in the section, General Education Program, found elsewhere in this catalog.

C. Mathematical Foundations 6 hrs min.
1. Take MAC 2311, Calculus I, (4 hrs) to meet this sub-requirement and the same listed below in 2. Common Program Prerequisites. NOTE: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
- Freshman engineering students who completed advanced algebra and trigonometry in high school, or transferring students who have taken college algebra and trigonometry, satisfy this prerequisite requirement and should begin the calculus sequence their first semester at UCF.
- Students who completed AP calculus in high school can determine their math status from the section, UCF Advanced Placement Program, found elsewhere in this catalog.

2. Take STA 3032 (3 hrs) to complete this sub-requirement and the same requirement listed below in 3. Courses Required for the Major. NOTE: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
1. Engineering students must take ECO 2013 or ECO 2023 to satisfy this sub-requirement.
2. Take ANT 2003, PSY 2013, or SYG 2000. See the course descriptions to assist in making your selection.

E. Science Foundations 6 hrs min.
1. Take PHY 2048/48L, Physics for Engineers and Scientists I with laboratory, (4 hrs) to meet this sub-requirement and the Common Program Prerequisites in 2. below. See the course descriptions.
2. Either GEO 1200 or GEO 3370 is preferred for meeting this requirement. See the course descriptions to assist in making your selection.

2. Common Program Prerequisites (CPR's) (48 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPR courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. NOTE: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements I.C.1. and I.E.L., respectively.

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<tr>
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<tr>
<td>CHS 1440</td>
<td>Fundamentals of Chemistry for Eng</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analytic Geometry II</td>
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<td>Calculus with Analytic Geometry III</td>
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<td>MAP 2302</td>
<td>Differential Equations</td>
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<tr>
<td>PHY 2048/48L</td>
<td>Physics for Engineers &amp; Scientists I</td>
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<td>Physics for Engineers &amp; Scientists II</td>
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<td>ENC 1101</td>
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<td>ENC 1102</td>
<td>Composition II</td>
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<td>Humanities</td>
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<td>Social Sciences</td>
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</table>
3. Courses Required for the Major (68 hrs)
The College of Engineering requires all engineering students to achieve a minimum 2.250 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 I, S, or U. NOTE: Course STA 3032 also satisfies GEP requirement I.C.2, above.

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<tr>
<td>EGN 1111C</td>
<td>Engineering Computer Graphics</td>
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</tr>
<tr>
<td>EGN 1930</td>
<td>ST: Engineering Concepts &amp; Methods</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 3310</td>
<td>Engineering Analysis - Statics</td>
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<tr>
<td>EGN 3321</td>
<td>Engineering Analysis - Dynamics</td>
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</tr>
<tr>
<td>EGN 3358</td>
<td>Thermo-Fluids-Heat Transfer</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Structure &amp; Properties of Materials</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3373</td>
<td>ST: Principles of Electrical Engineering</td>
<td>3 hrs</td>
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<tr>
<td>EGN 3613</td>
<td>Engineering Economic Analysis</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EGN 3704</td>
<td>Engineering &amp; the Environment</td>
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</tr>
<tr>
<td>EGN 4624</td>
<td>Engineering Administration</td>
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<td>STA 3032</td>
<td>Probability &amp; Statistics for Engineers</td>
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<tr>
<td>EIN 3304</td>
<td>Introduction to IE &amp; MS</td>
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<td>EIN 3314C</td>
<td>Work Measurement &amp; Design</td>
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<td>EIN 3354</td>
<td>Principles of Cost Engineering</td>
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<tr>
<td>EIN 4118C</td>
<td>IE Applications of Computers</td>
<td>3 hrs</td>
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<td>EIN 4243C</td>
<td>Human Engineering</td>
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<td>EIN 4333C</td>
<td>Industrial Control Systems</td>
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<td>EIN 4364C</td>
<td>Industrial Planning &amp; Design</td>
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<td>EIN 4391C</td>
<td>Manufacturing Engineering</td>
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<td>ESI 4221</td>
<td>Empirical Methods for IE</td>
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<td>ESI 4234</td>
<td>Quality Engineering</td>
<td>3 hrs</td>
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<tr>
<td>ESI 4312</td>
<td>Operations Research</td>
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<tr>
<td>ESI 4523C</td>
<td>Systems Simulation</td>
<td>3 hrs</td>
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</tbody>
</table>

Approved Technical Electives: 3 hrs

4. 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.

5. Foreign Language Requirements (0-8 hrs)
Admission: 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None.

6. Approved Technical Electives
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.

7. University Minimum Graduation Requirements
- A 2.000 GPA in all work attempted (both UCF and overall).
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 31 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

Related Minors: None.
INTERPERSONAL COMMUNICATION: BACHELOR OF ARTS

College of Arts and Sciences
Nicholson School of Communication, COM 240A, (407) 823-2852, E-mail: communication@ucf.edu
Dr. K. Phillip Taylor

Admission Requirements
Application to the Nicholson School of Communication needed. Only general University admission policies must be met.

Degree Requirements
- 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 1600C Fund Oral Communication 3 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics 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 (3 hrs)
   SPC 1600C Fund Oral Communication 3 hrs

3. Specific Program Requirements (3 hrs)
   CGS 2580C Word Processor Concepts 1 hr
   CGS 2581C Document Presentation Concepts 1 hr
   CGS 2582C Desktop Publishing Concepts 1 hr

4. Core requirements (27 hrs)
   COM 3011 Communication and Human Relations 3 hrs
   COM 3311 Communication Research Methods 3 hrs
   COM 3701 Humor in Communication 3 hrs
   COM 4XXX Gender Issues in Communication 3 hrs
   COM 4461 Intercultural Communication 3 hrs
   SPC 3301 Interpersonal Comm 3 hrs
   SPC 4331 Nonverbal Communication 3 hrs
   SPC 4350 Studies in Listening 3 hrs
   SPC 4540 Attitudes and Communication 3 hrs
   SPC 4425 Group Dynamics 3 hrs

5. Upper Division Restricted Electives (9 hrs)
   A minimum of 9 upper division credit hours selected from the following Social Science courses in Anthropology, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

6. School Exit Requirements
   - Achieve an overall "C" GPA (2.0) in all 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

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. May be outside of the School of Communication.

9. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Organizational Communication

Related Minors: Organizational Communication

Transfer notes:
- "D" grades from other institutions do not meet school 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.

Total Semester Hours Required 120 hours
3. Core requirements

JOU 3004  History of American Journalism  3 hrs
JOU 2100*  News Reporting  3 hrs

4. Upper Division Restricted Electives  (3 hrs)

JOU/PGY  Elective  3 hrs

5. Required Minor:  (15 hrs minimum)

Journalism majors must complete a minor in an academic area outside of the School of Communication or complete a 15-credit-hour area of concentration approved by the Faculty.

6. School Exit Requirements

To avoid delaying graduation, you must request a review of requirements before registering for your last term.

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 "C" GPA (2.0) in all work attempted (both UCF and overall)

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

30 semester hours in regular courses completed at UCF

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Complete the General Education Program, the Gordon Rule, the CLAST and 9 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, Political Science, Sociology, Technical Writing, Writing

Transfer notes:

"D" grades from other institutions do not meet school 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.
LEGAL STUDIES: BACHELOR OF ARTS or BACHELOR OF SCIENCE

College of Health and Public Affairs
HPB 113, (407) 823-2603
Undergraduate Program Coordinator: Frank Ravitch

Admission Requirements  None

Degree Requirements
- 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
- 30 hours of PLA coursework must be taken at UCF
- 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
   B. Cultural Historical Foundations  9 hrs
   C. Mathematical Foundations  6 hrs
   Select MGF 1203
   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 3105 Legal Research  3 hrs
   PLA 3155 Legal Writing  3 hrs
   PLA 3203 Civil Practice and Procedure  3 hrs
   PLA 3504 Property and Real Estate Law  3 hrs
   PLA 4XXX Capstone: Legal Issues  3 hrs

4. Upper Division Restricted Electives  (30 hrs)
   18 additional hours of Legal Studies coursework. (see applied and general emphases below for examples)
   General Emphasis
   PLA 3273 The Law of Torts
   PLA 3308 Criminal Procedure
   PLA 4020 Law and Society
   PLA 4408 The Law of Contracts
   PLA 4483 Administrative Law
   PLA 4700 Professional Ethics and Liability
   PLA 5937 Seminar in Contemp Legal Problems
   PLA 4820 World Legal Systems
   Applied Emphasis
   PLA 3273 The Law of Torts
   PLA 4408 The Law of Contracts
   PLA 4603 Estates and Trusts
   PLA 4941 Internship
   PLA 4XXX Legal Applications of Computer Software
   PLA 4763 Law Office Practices

12 semester hours of supporting courses chosen with the approval of the student's advisor. These courses may be selected from any department or program so long as they are relevant to legal studies.

5. Departmental Exit Requirements  (120 hrs)
   Students must take a minimum of 30 hours of PLA courses at UCF. The total Semester Hours Required is 120.

6. Electives  (variable)

7. Foreign Language Requirements  (0-8 hrs)
   Admissions: Two (2) years of one foreign language in high school, or one (1) 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. Students pursuing the B.S. degree must satisfy nine (9) credit hours from the approved list of courses.

8. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs of Summer credit (if applicable)

Total Semester Hours Required  120 hours

Related Programs: None

Related Minors: None

Transfer Note:
Courses taken at community colleges do not substitute for Upper Division courses.

Honors
Honors Option Requires:
- Completion of a 3 credit directed readings course
- Completion of a 3 credit thesis course
- Open to students with a 3.5 GPA in Legal Studies
- Cumulative UCF 3.5 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Minor
The Legal Studies Minor consists of 18 or more semester hours. Required courses: PLA 3013 plus a minimum of 12 semester hours of legal studies courses and 3 semester hours of law-related courses selected with the aid of an advisor.

Four Year Plan of Study

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<td>EUH 2000 or HUM 2211</td>
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<tr>
<td>or AMH 2010</td>
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<tr>
<td>MGF 1203</td>
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*Plan your required 9 summer hours into your course of study
### Sophomore Year

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<tr>
<td>ANT 2511 or GLY 1030</td>
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<td>PSC 1121 or CHM 1020</td>
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<td>or GEO 1200</td>
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<td>SPC 1600C</td>
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### Senior Year

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LIBERAL ARTS TRACK: BACHELOR OF ARTS

College of Arts and Sciences
Liberal Studies Program, FA 207A, E-mail: liberal.arts@ucf.edu
Dr. Donald E. Jones, (407) 823-0144

The Liberal Arts Track is an honors-linked Bachelor of Arts degree program available to students seeking an individualized, inter-disciplinary, non-traditional major within the College of Arts and Sciences.

Admission Requirements None

Degree Requirements
- Students must earn at least a "C" 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)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites None

3. Core Requirements (6 hrs)
   an approved course in ethics 3 hrs
   an approved course in critical thinking 3 hrs

4. Restricted Electives (36-42 hrs)
   Select one
   a. complete a minor from those offered at UCF 18 hrs
   b. complete an approved individualized minor 18 hrs
   Select one
   a. complete a second minor offered at UCF 18+hrs
   b. complete twelve hours of approved courses within each of two of the following areas: 24 hrs
      Fine Arts
      Natural Sciences
      Social Sciences/Communication
      Letters/Humanities
   c. an approved, individualized curriculum 24 hrs

5. Program Exit Requirements (3 hrs)
   IDS 4970 Thesis 3 hrs
- Students must take at least one Honors Seminar to meet the requirements of the Core or Restricted Electives (sections 3 and 4 above)
- Maintain a minimum GPA of 3.0 in all Liberal Arts Track courses
- Computer Competency met by IDS 4970

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: General Studies Track

Related Minors: All minors

Transfer notes:
- "D" grades from other institutions do not meet departmental 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.

...
MANAGEMENT: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

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)
   - Communication Foundations 9 hrs
   - Cultural and Historical Foundations 9 hrs
   - Mathematical Foundations
     - Select MAC 1104 College Algebra 3 hrs
     - Select CGS 2100C Computer Fundamentals for Business 3 hrs
   - Social Foundations
     - Select ECO 2013 Principles of Economics I 3 hrs
       or ECO 2023 Principles of Economics II
     - Select one: PSY 2013, SYG 2000, ANT 2003 3 hrs
   - Science Foundation 6 hrs

2. Common Program Prerequisites
   - ACG 2021 Principles of Financial Accounting
   - ACG 2071 Principles of Managerial Accounting
   - ECO 2013 Principles of Macroeconomics
   - ECO 2023 Principles of Microeconomics
   - *MAC2233 Concepts of Calculus
   - *STA2023 (or QMB2100) Statistics
   - **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" or better must take ECO3401.

3. Required for All Business Majors (33 hrs)
   **Students must demonstrate competency in micro-computer applications during their first semester in College of Business Administration courses. Students who fail to demonstrate competency will not be permitted to continue enrollment in the business program.
   - GEB 3031 Cornerstone 6 hrs
   - ECO 3401 Quantitative Business Tools 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
     - MAN 3404 Quality and Productivity Management 3 hrs
     - MAR 3023 Marketing 3 hrs
   - Last Semester:
     - GEB 4361 Business in the International Environment 3 hrs
     - MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
   - Students wanting to major in Management must apply for admission to the major
   - Students not in attendance at the first meeting of any College of Business course may be dropped from the course. 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
   - A transfer student to this program must take a minimum of twelve (12) semester hours in Management at UCF

5. Tracks
   Students may choose from two tracks. Within the Management tracks, students can concentrate in four areas of concentration. Courses for each track and area of concentration are outlined below:
   A. Management Track
   1. Human Resource Management (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 4402 Labor Relations Management 3 hrs
        - MAN 4941 Internship 3 hrs
   2. General (24 hrs)
      - Required courses (15 hrs)
        - ISM 3011 Management Information Systems 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
      - Restricted Elective Courses - Take three additional courses to be selected from any two other specialization areas
   B. Management - Information Systems Track (27 hrs)
      - Required Courses (21 hrs)
        - ISM 3005 MIS Techniques 3 hrs
        - ISM 4113 Information System 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
        - MAN 4540 Mgmt Science & Decision Support 3 hrs
      - Plus two of the following: (6 hrs)
        - MAN 4240 Organization Theory and Behavior 3 hrs
        - MAN 4595 Computer-Based Operations Mgmt 3 hrs
        - ISM XXXX (Any ISM prefix courses)

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

7. University Minimum Exit Requirements
   - A 2.000 GPA in all work attempted (Overall, UCF, COB, Major)
   - 60 semester hours earned after any CLEP award
   - 48 semester 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)
8. 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 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.
- 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 courses.
- 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 - MANAGEMENT

Freshman
**Fall** 15 hrs **Spring** 15 hrs
ENC 1101* 3 ENC 1102* 3
Cult-Hist I* 3 Cult-Hist II* 3
SPC 1600C 3 Art/Music/Lit 3
***Elective 3 MAC 1104* 3
***Elective 3 CGS 2100C 3

Must complete 9 hrs in a summer semester

Sophomore
**Fall** 15 hrs **Spring** 15 hrs
ECO 2013* 3 ECO 2023* 3
ACG 2021* 3 ACG 2071* 3
Science 3 Science 3
Psy/Soc/Ant 3 ***Elective 3
***Elective 3 ***Elective 3

* "C" or better grade required in each class
Must complete CLAST requirement

Transfer students must complete a minimum of twelve (12) hours in Management at UCF.

Student should choose to concentrate in one area of study (Track Specializations)

HUMAN RESOURCE MANAGEMENT

Junior

<table>
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<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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</thead>
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<tr>
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<td>MAN 4240</td>
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<tr>
<td>ECO 3401</td>
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<td>MAN 3301</td>
<td>3</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>3</td>
<td>ECO 3411</td>
<td>3</td>
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<tr>
<td>MAN 3025</td>
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<td>FIN 3405</td>
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<td></td>
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<td>BUL 3130</td>
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**Pass Computer Competency Exam in same term Cornerstone completed**

Senior

<table>
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<th>Fall</th>
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<td>BUL 4540</td>
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<td>GEB 4361</td>
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***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

Junior

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<th>Fall</th>
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<tr>
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<tr>
<td>MAN 3504</td>
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<td>ECO 3411</td>
<td>3</td>
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<td>MAN 3025</td>
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<td>FIN 3403</td>
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<td>BUL 3130</td>
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**Pass Computer Competency Exam in same term Cornerstone completed**

Senior

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<th>Fall</th>
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<tbody>
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<td>***Elective</td>
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<tr>
<td>~MAN Elective</td>
<td>3</td>
<td>GEB 4361</td>
<td>3</td>
</tr>
</tbody>
</table>

- Three MAN Electives to be selected from any two other specialization areas

***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

Junior

<table>
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<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tbody>
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<td>3</td>
</tr>
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<tr>
<td></td>
<td></td>
<td>ECO 3411</td>
<td>3</td>
</tr>
</tbody>
</table>

**Pass Computer Competency Exam in same term Cornerstone completed**

223
Senior Fall 15 hrs Spring 15 hrs
ISM Elective  3  MAN 4720  3
FIN 3403  3  ISM 4220  3
ISM Elective  3  ISM 4130  3
BUL 3130  3  ISM Elective  3
ISM 4113  3  GEB 4361  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.
MARKETING: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

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 1104 College Algebra 3 hrs
      Select CGS 2100C Computer Fundamentals for Business 3 hrs
   D. Social Foundations
      Select ECO 2013 Principles of Economics I or ECO 2023 Principles of Economics II 3 hrs
      Select one: PSY 2013, SYG 2000, ANT 2003 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites
   ACG 2071 Principles of Managerial Accounting 3 hrs
   ACG 2021 Principles of Financial Accounting 3 hrs
   ECO 2013 Principles of Macroeconomics 3 hrs
   ECO 2023 Principles of Microeconomics 3 hrs
   MAC 2233 Concepts of Calculus 3 hrs
   STA 2023 (or QMB 2100) Statistics 3 hrs
   CGS 2100C Computer Fundamentals for Business 3 hrs
   At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" or better must take ECO 3401.

3. Required for All Business Majors (33 hrs)
   Common Body of Knowledge
   First Semester in the College of Business Administration:
   ** Students must demonstrate competency in micro-computer applications during their first semester in College of Business Administration courses. Students who fail to demonstrate competency will not be permitted to continue enrollment in the business program.
   GEB 3031 Cornerstone 6 hrs
   ECO 3401 Quantitative Business Tools 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
   MAN 3504 Quality and Productivity Management 3 hrs
   MAR 3023 Marketing 3 hrs
   Last Semester:
   GEB 4361 Business in the International Environment 3 hrs
   MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
   - Students wanting to major in Marketing must apply for admission to the major
   - Students not in attendance at the first meeting of any College of Business course may be dropped from the course. 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
   - A transfer student to this program must take a minimum of twelve (12) semester hours in marketing at UCF
   - Students majoring in Marketing must earn a grade of "C" 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.

5. Required Courses (18 hrs)
   MAR 3641 Marketing Intelligence 3 hrs
   MAR 3503 Customer Behavior & Relation. Mktg 3 hrs
   MAR 3613 Marketing Analysis and Research 3 hrs
   MAR 3391 Mktg Comm & Professional Selling 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 Advert., Sales Promo., Public Relations 3 hrs
   MAR 3403 Sales Force Management 3 hrs
   MAR 4156 International Marketing 3 hrs
   MAR 4231 Retailing Management 3 hrs
   MAR 4711 Sports Marketing 3 hrs
   MAR 4712 Healthcare Marketing 3 hrs
   MAR 4841 Services Marketing 3 hrs

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

8. University Minimum Exit Requirements
   - A 2.000 GPA in all work attempted (Overall, UCF, COB, Major)
   - 60 semester hours earned after any CLEP award
   - 48 semester 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)

9. Electives:
   As necessary to result in 120 total credit hours

***Total Semester Hours Required 120 hours

Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or the small business consulting class (MAR 5941). Each of these classes is assigned three credit hours; however, neither can be counted 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 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.
- 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 1600C | 3 | Art/Music/Lit | 3
***Elective | 3 | MAC 1104* | 3
***Elective | 3 | CGS 2100C | 3

Must complete 9 hrs in a summer semester

Sophomore

Fall | 15 hrs | Spring | 15 hrs
--- | --- | --- | ---
ECO 2013* | 3 | ECO 2023* | 3
ACG 2021* | 3 | ACG 2071* | 3
Science | 3 | Science | 3
Psy/Soc/Ant | 3 | ***Elective | 3
***Elective | 3 | ***Elective | 3

* "C" or better grade required in each class
Must complete CLAST requirement

Marketing majors must have "C" or better in each class in the major to include MAR 3023 and a 2.0 GPA in major

Transfer students must complete a minimum of twelve (12) hours in Marketing at UCF

Junior

Fall | 15 hrs | Spring | 12 hrs
--- | --- | --- | ---
**GEB 3031 | 6 | MAR 3503 | 3
ECO 3401 | 3 | MAR 3641 | 3
MAR 3023 | 3 | ECO 3411 | 3
MAN 3025 | 3 | FIN 3403 | 3

**Pass Computer Competency Exam in same term Cornerstone completed

Summer | 9 hrs
--- | ---
MAN 3504 | 3
MAR 3613 | 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.
The Department of Mathematics offers special courses for students in the Honors Program. These are MAC 2311H, MAC 2312H, MAC 2313H, MAC 3930H, and MAP 2302H.

**Admission Requirements** None

### Degree Requirements
- 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 21 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.
- Students must earn at least a "C" 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)
- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
  - Select MAC 2311 Calculus I 4 hrs
  - Select COP 3502 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 (23 hrs)
- COP 3502* Computer Science I 3 hrs
- MAC 2311 Calculus I 4 hrs
- MAC 2312 Calculus II 4 hrs
- MAC 2312 Calculus III 4 hrs
- BSC 2010* General Biology 4 hrs
- PHY 2048* & L Physics for Sci & Eng I & Lab 4 hrs

*See Transfer Notes for possible substitutes.

#### 3. Core requirements (51 hrs)
- PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
- One course selected from
  - ENC 3241 Technical Report Writing
  - ENC 3310 Magazine Writing
  - ENC 3311 Advanced Expository Writing
  - STA 2023 Statistical Methods I
  - MHF 2300 Logic and Proof
  - MAP 2302 Differential Equations
  - MAS 3106 Linear Algebra
    (M A S 3 10 5 is a prerequisite course)
  - Select one course
    - MAD 4203 Combinatorics & Graph Theory
    - MAP 4153 Vector and Tensor Analysis
    - MAP 4307 Appl of Complex Variables

### 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 3043, PCB 3063, PCB 4302C, PCB 4303C PCB 4723, CHM 3410, CHM 3411, CHM 5580, PHY 3101, PHY 3323, PHY 4324, PHY 4424, PHY 4604

### 5. Departmental Exit Requirements
- Earn a grade of "C" or better in each course required in the degree program (sections 2-4 above)
- Computer Competency met by COP 2200

#### 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:**
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
• COP 3502*: 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
MATHMATICS - PURE:
BACHELOR OF SCIENCE

College of Arts and Sciences
Department of Mathematics, PH 403 (407) 823-6284
E-mail: math@ucf.edu
Dr. P. Rautenstrauch, (407) 823-2493

The Department of Mathematics offers special courses for students in the Honors Program. These are MAC 2311H, MAC 2312H, MAC 2313H, MAC 3930H, and MAP 2302H.

Admission Requirements
None

Degree Requirements
- 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 21 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.
- Students must earn at least a "C" in each required course.
- 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 (39 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 2311 Calculus I 4 hrs
      Select COP 3502 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 (23 hrs)
   COP 3502* Computer Science I 3 hrs
   MAC 2311 Calculus I 4 hrs
   MAC 2312 Calculus II 4 hrs
   MAC 2313 Calculus III 4 hrs
   BSC 2010C* General Biology 4 hrs
   PHY 2048* & L Physics for Sci & Eng I & Lab 4 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (52 hrs)
   PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
   One course selected from
   ENC 3241 Technical Report Writing
   ENC 3310 Magazine Writing
   ENC 3311 Advanced Expository Writing
   STA 2023 Statistical Methods 3 hrs
   MHF 2300 Logic and Proof 3 hrs
   MAP 2302 Differential Equations 3 hrs
   MAS 3106 Linear Algebra 4 hrs
   (MAS 3105 is a prerequisite course)
   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 3503 Computer Science II 3 hrs
   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
   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 3043, PCB 3063, PCB 4302C, PCB 4303C, PCB 4723, CHM 2045, CHM 2046, PHY 3101, PHY 3323, PHY 4424

5. Departmental Exit Requirements
   Earn a grade of "C" or better in each course required in the degree program (sections 2-4 above)
   Computer Competency met by COP 3200

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   60 semester hours earned after CLEP awarded
   48 semester hours of upper division credit completed
   30 semester hours in regular courses completed at UCF
   A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- COP 3502*: 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: BACHELOR OF SCIENCE

College of Education
Instructional Programs Department, ED346, (407) 823-2939
Coordinator: Dr. Doug Brumbaugh

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student's major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      Select *SPC 1600C Fundamentals of Oral Comm
      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
   B. Cultural-Historical Foundations 9 hrs
      Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020
      Select one course from ARH 2050, 2051; MUL 2110, THE 1040; REL 2300; PHI 2110; LIT 2110
   C. Mathematical Foundations 6-7 hrs
      Select *Mac 2311 Calculus with Analytic Geometry I
      Select *Cgs 1060C Intro to Computer Science or STA 2023 Statistical Methods I
   D. Social Foundations 6 hrs
      Select *Psy 2013 Gen Psychology
      Select ECO 2013 Principles of Economics or POS 2041 American National Government
   E. Science Foundations 6 hrs
      Select PSC 1121 Physical Science
      Select BSC 1020 Biological Principles
      * College Preprofessional Requirements.
      At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.
      **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education 3 hrs
   *EDG 2701 Teaching Diverse Populations 3 hrs
   EME 1040 Intro to Technology 3 hrs

*In addition to EDG2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the College/University catalog.)

3. Preprofessional Requirements
   * See General Education Program
   SPC 1600C Fundamentals of Oral Comm.
   PSY 2013 General Psychology

4. Specific Program Prerequisites (7 hrs)
   *CGS 1060C Intro to Computer Science 3 hrs
   *MAC 2311 Calculus with Analytic Geometry I GEP
   MAC 2312 Calculus with Analytic Geometry II 4 hrs
   STA 2023 Statistical Methods I GEP
   * See transfer notes for possible substitutes.

5. Education Core Requirements (9 hrs)
   EDG 4323 Professional Teaching Practices 3 hrs
   EDF 4603 Anal. Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs

6. Internship I (ESE 3943) (6 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily before student teaching
   At least 50% of all required mathematics courses and Teaching Strategies I must be completed before registering for Internship I

7. Specialization Requirements (37 hrs)
   MAP 2302 Differential Equations 3 hrs
   MAP 4103 Mathematical Modeling 3 hrs
   MAC 2313 Calculus with Analytic Geometry III 3 hrs
   MAS 4301 Algebra Structure 3 hrs
   MAD 4203 Combinatorics & Graph Theory 3 hrs
   MAE 4360 Mathematics Instructional Analysis 4 hrs
   MAE 4634 Programs in Teaching Mathematics 3 hrs
   MAS 3105 Elementary Linear and Matrix Algebra 3 hrs
   MAS 3203 Number Theory 3 hrs
   Mhf 2300 Logic and Proof in Mathematics 3 hrs
   Mhf 4404 History of Mathematics 3 hrs
   MTG 4212 Modern Geometry 3 hrs

8. Internship II (ESE4943) (12 hrs)
   A student must have completed the portfolio process for Internship II Satisfactorily before student teaching
   At least 80% of all required mathematics courses and all methods courses must be completed before registering for Internship II

9. Foreign Language Requirements (0-6 hrs)
   State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

10. Departmental Exit Requirements
   Achieve a 2.5 GPA in all courses within the major.

11. University Minimum Exit Requirements
   A 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 semester hours in regular courses completed at UCF
   Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)
Total Semester Hours Required 120 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.

*Acceptable Substitutes:
While another course may be acceptable, for certification purposes students should take the listed courses.
MECHANICAL ENGINEERING:
BACHELOR OF SCIENCE

College of Engineering
Mechanical, Materials & Aerospace Engineering Department,
ENGR 381, (407) 823-5828, FAX: (407) 823-0208, Home Page:
http://www-mmae.engr.ucf.edu
Dr. E. R. Hosler, ENGR 311, E-Mail: hosler@mail.ucf.edu

Admission Requirements:
All entering students are required by UCF 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. Each entering student should plan to attend Orientation at the earliest date offered, and must ensure that required transcripts have been submitted to the Admissions Office well in advance of the selected orientation date. Transcripts require processing, and this information must be available to engineering advisors at Orientation to assist students in selecting and registering for appropriate first-semester classes.

Degree Requirements
A. Communication Foundations 9 hrs
1. Take ENC 1101

2. Take ENC 1102
3. SPC 1016 is the preferred substitute for SPC 1600C for engineering students.

See the descriptions of these courses in the section, Alphabetical Listing of Courses, later in this catalog.

B. Cultural and Historical Foundations 9 hrs
Engineering students should meet this requirement as it is described in the section, General Education Program, found elsewhere in this catalog.

C. Mathematical Foundations 6 hrs min.
1. Take MAC 2311, Calculus I, (4 hrs) to meet this sub-requirement and the same listed below in 2. Common Program Prerequisites. NOTE: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
   a. Freshman engineering students who completed advanced algebra and trigonometry in high school, or transferring students who have taken college algebra and trigonometry, satisfy this prerequisite requirement and should begin the calculus sequence their first semester at UCF.
   b. Students who completed AP calculus in high school can determine their math status from the section, UCF Advanced Placement Program, found elsewhere in this catalog.

2. Take STA 3032 (3 hrs) to complete this sub-requirement and the same requirement listed below in 3. Courses Required for the Major. NOTE: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
1. Engineering students must take ECO 2013 or ECO 2023 to satisfy this sub-requirement.
2. Take ANT 2003, PSY 2013, or SYG 2000. See the course descriptions to assist in making your selection.

E. Science Foundations 6 hrs min.
1. Take PHY 2048/48L, Physics for Engineers and Scientists I with laboratory, (4 hrs) to meet this sub-requirement and the Common Program Prerequisites in 2. below. See the course descriptions.
2. Either GEO 1200 or GEO 3370 is preferred for meeting this requirement. See the course descriptions to assist in making your selection.

2. Common Program Prerequisites (CPR’s) (48 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPR courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. NOTE: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements I.C.1. and I.E.L., respectively.

CHS 1440 Fundamentals of Chemistry for Eng 4 hrs
   (CHM 2045/45L will substitute)
MAC 2311 Calculus with Analytic Geometry I 4 hrs
   (MAC 2281 will substitute)
MAC 2312 Calculus with Analytic Geometry II 4 hrs
   (MAC 2282 will substitute)
MAC 2313 Calculus with Analytic Geometry III 4 hrs
   (MAC 2283 will substitute)
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
Humanities Courses 6 hrs
Social Science Courses 6 hrs
Humanities or Social Sciences 3 hrs
3. Courses Required for the Major (68 hrs)

The College of Engineering requires all engineering students to achieve a minimum 2.250 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 I, S, or U. NOTE: Course STA 3032 also satisfies GEP requirement 1.C.2., above.

EGN 1006 Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1930 ST: 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 3930 ST: Principles of Electrical Engineering 3 hrs
EGN 4624 Engineering Administration 3 hrs
STA 3032 Probability & Statistics for Engineers 3 hrs
EML 3034 Modeling Methods in MMAE 3 hrs
EML 3303C Mechanical Engng 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 Measurements in Thermal Systems 2 hrs
EMS 4703C Fluid Mechanics II 3 hrs
Approved Electives 8 hrs

b. Mechanical Systems Option
EMA 3012C Experimental Techniques in Mechanics & Materials 2 hrs
EML 3262 Kinematics of Mechanisms 3 hrs
EML 3804C Mechatronics 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
Approved Electives 8 hrs

4. Departmental Graduation Requirements (6 hrs)
- EML 4501C Engineering Design I 3 hrs
- EML 4502C Engineering Design II 3 hrs
- COE encourages all engineering students to take the Engineering Intern Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)

Admission: 2 years of one foreign language in high school, or 1 year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None.

6. Approved Technical Electives

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.

7. University Minimum Graduation Requirements
- A 2.000 GPA in all work attempted (both UCF and overall).
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 31 semester hours of regular courses completed 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 9 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Aerospace Engineering, Industrial Engineering.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.

Approved Technical Electives

- Select one of the following options for your senior year to complete your BSME. See your ME advisor for assistance in making this selection. (16 hrs)
- EML 3034 Modeling Methods in MMAE 3 hrs
- EML 3303C Mechanical Engng 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 options for your senior year to complete your BSME. See your ME advisor for assistance in making this selection. (16 hrs)

- EML 3034 Modeling Methods in MMAE 3 hrs
- EML 3303C Mechanical Engng 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

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- EML 3034 Modeling Methods in MMAE 3 hrs
- EML 3303C Mechanical Engng 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 options for your senior year to complete your BSME. See your ME advisor for assistance in making this selection. (16 hrs)

- EML 3034 Modeling Methods in MMAE 3 hrs
- EML 3303C Mechanical Engng 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

Tentative Course Schedule for Entering Freshmen

MECHANICAL ENGINEERING - 128 semester hours required

FIRST YEAR

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II. MECHANICAL SYSTEMS OPTION

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Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult 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.
3. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
4. Mechanical engineering students must earn at least 32 hours in residence at UCF.

III. MATERIALS OPTION

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Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult 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.
3. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
4. Mechanical engineering students must earn at least 32 hours in residence at UCF.
MEDICAL LABORATORY SCIENCES: BACHELOR OF SCIENCE

College of Health and Public Affairs
BIO 103, (407) 823-2968
Undergraduate Program Director: Dorelyn Hitchcock

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 must be made directly to the program prior to March 1 of the year admission is sought. Preference will be given to those who apply prior to March 1.
> 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
> 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 CLEP, TSD, or AP credit may be used for prerequisite courses)
> Students are interviewed by a panel of clinical coordinators from the affiliated hospitals to ensure prerequisites have been completed and that the student meets all requirements. Indication of ability is also considered. Interview results are then submitted to the Selection Committee for final approval.

Degree Requirements
> 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” in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program
> UCF Residency Requirement: 34 hours
> 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
   B. Cultural Historical Foundations
      9 hrs
   C. Mathematical Foundations
      Select MAC 1104
      Select CGS 2100C and STA 2023
   D. Social Foundations
      6 hrs
   E. Science Foundations
      Select BSC 2010C
      Select CHM 2045

2. Common Program Prerequisites (30 hrs)
   BSC 2010C General Biology and lab
   GEP
   CHM 2045, 2046 Chemistry Fundamentals I&II w/labs
   GEP, 4 hrs
   STA 2023 Statistical Methods I
   GEP
   ZOO 3733C Human Anatomy and Lab*
   4 hrs
   CHM 2210, 2211 Organic Chemistry I&II w/labs
   8 hrs
   MCB 3020C General Microbiology
   5 hrs
   PCB 3703C Human Physiology and Lab
   4 hrs
   CHM 2211, 2211L Organic Chemistry II and Lab
   5 hrs
   * see Transfer Notes

3. Core Requirements (60 hrs)
   MLS 3220C Clinical Microscopy with lab
   2 hrs
   MLS 4625C, 4630C Advanced Clinical Chemistry I&II
   8 hrs
   PCB 3233 Immunology
   3 hrs
   PCB 3233L Immunology Lab
   1 hr
   MLS 4420C Clinical Parasitology
   2 hrs
   MLS 3305 Hematology
   4 hrs
   MLS 4506C Immunodiagnostics
   2 hrs
   HSA 4700 Intro to Research in Health Prof
   3 hrs
   MLS 4550 Clinical Immunohematology
   4 hrs
   MLS 4460 Clinical Pathogenic Microbiology
   4 hrs
   MLS 4420C Clinical Mycology
   1 hr
   MLS 4334C Hemostasis
   2 hrs
   MLS 4932 Medical Technology Seminars
   1 hr
   MLS 3705 Concepts in Education/Management
   3 hrs
   MLS 4830C, 4831C, Clinical Practice I, II, III, IV, & V
   20 hrs
   CGS 2100C Computer Fundamentals for Business
   GEP

4. Upper Division Restricted Electives
   None

5. Departmental Exit Requirements (126 hrs)
   For the last seven months of the program, the students will be assigned to a hospital laboratory for clinical experience. The affiliated hospitals are located in Gainesville, Sarasota, Lakeland, Orlando, Winter Haven and Rockledge. It may be necessary for the student to relocate to any of these areas for this period. 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 an affiliated hospital laboratory
   Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and the State of Florida licensure examination
   Students must earn a grade of “C” 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 (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

8. University Minimum Exit Requirements
   A “C” GPA (2.0) in all work attempted (both UCF and overall)
   60 semester hours earned after CLEP awarded
   45 semester hours of upper division credit completed
   31 semester hours in regular courses completed at UCF
   A maximum of 45 hrs of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
   Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs of Summer credit (if applicable)

Total Semester Hours Required 126 hrs
## 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)

### Four Year Plan of Study

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>17 hrs</th>
<th>Spring</th>
<th>13 hrs</th>
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<td>or AMH 2010</td>
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<td>CHM 2046</td>
<td>3</td>
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<td>CHM 2046L</td>
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<td>MAC 1104</td>
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<thead>
<tr>
<th>Summer</th>
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#### Sophomore Year

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<td>MCB 3020C</td>
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<td>CHM 2211</td>
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<tr>
<td>CHM 2210</td>
<td>3</td>
<td>CHM 2211L</td>
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<tr>
<td>CGS 2100</td>
<td>3</td>
<td>SPC 1600C</td>
<td>3</td>
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<tr>
<td>ZOO 3733C</td>
<td>4</td>
<td>PCB 3703C</td>
<td>4</td>
</tr>
<tr>
<td>One course: ARH 2050</td>
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#### Junior Year

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<th>12 hrs</th>
<th>Spring</th>
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<td>MLS 3220C</td>
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<td>MLS 4625C</td>
<td>4</td>
<td>MLS 4630C</td>
<td>4</td>
</tr>
<tr>
<td>PCB 3233</td>
<td>3</td>
<td>MLS 4506</td>
<td>2</td>
</tr>
<tr>
<td>PCB 3233L</td>
<td>1</td>
<td>MLS 4550</td>
<td>4</td>
</tr>
<tr>
<td>MLS 4430C</td>
<td>2</td>
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#### Senior Year

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<td>4</td>
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<tr>
<td>MLS 4420C</td>
<td>1</td>
<td>MLS 4831</td>
<td>4</td>
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<tr>
<td>MLS 4334C</td>
<td>2</td>
<td>MLS 4832</td>
<td>4</td>
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<tr>
<td>MLS 4932</td>
<td>1</td>
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<tr>
<td>MLS 3705</td>
<td>3</td>
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<td>HSA 4700</td>
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<table>
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<tr>
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<td>MLS 4833</td>
<td>4</td>
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<tr>
<td>MLS 4834</td>
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</table>
# MOLECULAR BIOLOGY AND MICROBIOLOGY: BACHELOR OF SCIENCE

**College of Health and Public Affairs**  
**BIO 306, (407) 823-5932**  
Chair. Robert Gennaro

### Admission Requirements
None

### Degree Requirements
- 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 CLEP, TSD, or AP credit may be used for major requirements.
- No "D" grades in life science courses from other institutions will be accepted.
- 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)

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<tr>
<th>Area</th>
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<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select MAC 1104</td>
<td></td>
</tr>
<tr>
<td>Select CGS 1060C and STA 2023</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select BSC 2010C</td>
<td></td>
</tr>
<tr>
<td>Select CHM 2045</td>
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### 2. Common Program Prerequisites (20 hrs)

<table>
<thead>
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<th>Course</th>
<th>Credits</th>
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<tr>
<td>BSC 2010C General Biology I</td>
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<tr>
<td>BSC 2011C General Biology II</td>
<td></td>
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<tr>
<td>CHM 2045, 2046, General Chemistry I, II, + Lab GEP, 4 hrs 2046L</td>
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</tr>
<tr>
<td>CHM 2210, 2211, Organic Chemistry I, II, + Lab 2211L</td>
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<tr>
<td>MAC 2311 Calculus with Analytical Geometry I</td>
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### 3. Core Requirements (40 hrs)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MCB 3020C General Microbiology</td>
<td>5 hrs</td>
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<tr>
<td>PCB 3063, 3063L Genetics + Genetics Lab</td>
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<tr>
<td>PCB 3233, 3233L Immunology + Immunology Lab</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3523, 4524 Molecular Biology I, II</td>
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<td>BSC 3404 Quantitative Biological Methods</td>
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<td>Chemistry</td>
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<tr>
<td>BHC 4053 Biochemistry I</td>
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<td>Math* and Stat</td>
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<tr>
<td>MAC 1104, College Algebra, College and</td>
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<td>MAC 1114 Trigonometry and</td>
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<tr>
<td>MAC 2253 or 2311 Applied Calculus I or Calculus I</td>
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<td>STA 2023 Statistical Methods I</td>
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<tr>
<td>Physics*</td>
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<td>PHY 2053C, 2054C College Physics I, II or 2048C, 2049C</td>
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<tr>
<td>CGS 1060C Intro to Computer Science</td>
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### 4. Upper Division Restricted Electives (17-26 hrs)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>MCB 5654 Applied Microbiology</td>
<td>3 hrs</td>
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<tr>
<td>BCH 4054 Biochemistry II</td>
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<tr>
<td>BHC 4103L Biochemical Methods</td>
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</tr>
<tr>
<td>MCB 3203, 3203L Pathogenic Microbiology + Lab</td>
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</tr>
<tr>
<td>MCB 4114C Microbial Systematics and Diagnostics</td>
<td>4 hrs</td>
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<tr>
<td>MCB 4414 Microbial Metabolism</td>
<td>3 hrs</td>
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<tr>
<td>MCB 4603 Environmental Microbiology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MCB 5205 Infectious Process</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MCB 5505 Virology</td>
<td>3 hrs</td>
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<tr>
<td>PCB 3703C Human Physiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 5233 Immunopathology</td>
<td>4 hrs</td>
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<tr>
<td>PCB 5806 Endocrinology</td>
<td>3 hrs</td>
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<tr>
<td>ZOO 3733C Human Anatomy</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 4603C Vertebrate Embryology</td>
<td>5 hrs</td>
</tr>
<tr>
<td>ZOO 4753C Vertebrate Histology</td>
<td>5 hrs</td>
</tr>
<tr>
<td>ZOO 4XXX Fundamentals of Neurology</td>
<td>3 hrs</td>
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<tr>
<td>ZOO 5745C Essentials of Neuroanatomy</td>
<td>4 hrs</td>
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<tr>
<td>ZOO 3701C Dissection Techniques</td>
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<tr>
<td>MCB 5487 Current Topics in Molecular Biology</td>
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<tr>
<td>PCB 5026 Signal Transduction</td>
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<tr>
<td>PCB 5239 Tumor Biology</td>
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<tr>
<td>MCB 5225 Molecular Biology of Disease</td>
<td>3 hrs</td>
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</table>

### 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 (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** None

### 8. University Minimum Exit Requirements

- A "C" GPA (2.0) in all work attempted (both UCF and overall).
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- A maximum of 45 hrs of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs of Summer credit (if applicable).

**Total Semester Hours Required** 120 hours

**Related Programs:** Chemistry, Biology

**Related Minors:** Biology, Chemistry, Microbiology, Molecular Biology
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.

*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.

Honors
Honors Option Requires:
- Completion of a 3 credit directed readings course
- Completion of a 3 credit thesis course
- Open to students with a 3.5 GPA in Microbiology
- Cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Four Year Plan of Study

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Fall</th>
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<td>4</td>
<td>CGS 1060C</td>
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<td>CHM 2045</td>
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<td>MAC 1104</td>
<td>3</td>
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<td>SLS 2311*</td>
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<td>MAC 1114</td>
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<th>Summer</th>
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<td>SPC 1600C</td>
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<tr>
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*Recommended for preprofessional students.

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<td>CHM 2211</td>
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<td>STA 2023</td>
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<td>CHM 2211L</td>
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<td>MCB 3020C</td>
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<td>PCB 3233/L</td>
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<td>PCB 3063/L</td>
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** Plan your required 9 summer hours into your course of study

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<th>Junior Year</th>
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<td>PCB 3523</td>
<td>3</td>
<td>PCB 4524</td>
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<td>PHY 2053C or Phy 2048 &amp; L</td>
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<td>PHY 2054C or PHY 2048 &amp; L</td>
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<td>3/4</td>
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MUSIC: BACHELOR OF ARTS

College of Arts and Sciences
Department of Music, FA 105A, E-mail: music@mail.ucf.edu
Dr. L. Eubank, (407) 823-2869, fax (407) 823-3378

Admission Requirements
1. Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods.
2. Memorization is required for pianists and vocalists.
3. Each candidate must bring his/her own audition music.
4. The department will only provide large instruments such as a tuba, a string bass, or timpani for these auditions.
5. The audition will serve as a placement examination for accepted candidates.

Degree Requirements
1. Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department.
2. Each student must perform a faculty-approved public recital.
3. Students should consult with a departmental advisor.
4. 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 one two-semester sequence
      Select MUH 4212 History and Literature II
   B. Cultural and Historical Foundations
      Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics
      Prefer CS 1060C Intro to Computer Sci
   C. Mathematical Foundations
      Select MUS 1010
   D. Social Foundations
      Select MVE 1005
   E. Science Foundations
      Select MVE 1010

2. Common Program Prerequisites (20 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 IIIB 2 hrs
   MUT 2246* Ear Training & Sight Singing IIA 1 hr
   MUT 2247* Ear Training & Sight Singing IIIB 1 hr
   MUN XXXX Ensembles (4 semesters)
   (See Specialty requirements for specific requirements and for the credits required).
   MVB/MVK/MVP/
   MVS/MVV/MVV Performance (4 semesters) 8 hrs
   MVK 1111-2121* Class Piano I-II 0-2 hrs
   (or proficiency)
   *See Transfer Notes for possible substitutes.

3. Comprehensive Exam - Music Theory
   Completion, with at least an 80% score on each of the following components: ear-training, sight-singing, part-writing, visual analysis, counterpoint, instrumentation, and form.
   Test is to be taken after completing MUT 2117 and before enrolling in MUT 3571.

4. Core requirements (17 hrs)
   Piano proficiency 0 hrs
   (repeat MVK 3131-4141 Class Piano III-IV until passed)
   MUS 1010 Music Forum (6 semesters) 0 hrs
   MUT 3571 20th Century Musical Analysis 3 hrs
   MVB/MVK/MVP/
   MVS/MVV/MVV Performance 4 hrs
   (2 semesters of Level III)
   MUN XXXX Ensembles 2 hrs
   MUG 3104 Basic Conducting 2 hrs
   MUH 4211 History & Literature I 3 hrs
   MUH 4212 History & Literature II 3 hrs

5. Comprehensive Exam - Music History
   Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212.

6. Specialty Requirements: (21 hrs)
   Piano
   MUL 3400 Piano Literature I 2 hrs
   MUL 3401 Piano Literature II 2 hrs
   Ensemble
   MUN 3453 Piano 2 hrs
   Restricted Electives 15 hrs
   Voice
   FRE 1005 French Diction 1 hr
   GER 1005 German Diction 1 hr
   ITA 1005 Italian Diction 1 hr
   MUL 3600 Song Literature I 1 hr
   MUL 3601 Song Literature II 1 hr
   Ensemble
   MUN 3313 University Choir 2 hrs
   Restricted Electives 14 hrs
   All other instruments
   Ensemble
   MUN XXXX 2 hrs
   Restricted Electives 19 hrs

7. Restricted Electives (See above)
   Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

8. Special Non-Course Requirements
   MUS 1010 - Music Forum
   • Native UCF students are required to take 6 semesters of MUS 1010.
   • Transfer students must take MUS 1010 each term they are enrolled at UCF.
   Comprehensive Exams
   • Students are required to take piano until they pass the Piano Proficiency exam.
   • A comprehensive examination in music theory and music history is required.
   Major Ensemble Participation
   • Comprised of chorus, symphony orchestra, concert band, marching band, and wind ensemble. 4 hours of Jazz Lab 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 4 major ensemble credits in a separate semester.
   Minor Ensemble participation
   • If minor ensemble is taken at UCF, the 2 semester hours of credit must be spread over 2 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 four of their comprehensive examinations, including piano, before auditioning for their senior recital.
- Each BA student must perform one faculty-approved, 30 minute public recital at UCF.

9. Departmental Exit Requirements
- Earn a grade of "C" or better in each Music course.
- Computer Competency met by CGS 1060, or departmental examination.

10. Foreign Language Requirements (0-11 hrs)
Admission: Met by graduation requirement.
Graduation: 3 semesters or equivalent proficiency exam.

11. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

12. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall).
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

Related Programs: Music Education, Music (BFA), Theatre
Related Minors: Music, Theatre

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are 3 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 3 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.
MUSIC EDUCATION: BACHELOR OF MUSIC EDUCATION

College of Arts and Sciences
Department of Music, FA 105A, E-mail: music@mail.ucf.edu
Dr. L. Eubank, (407) 823-2869, fax (407) 823-3378

Admission Requirements

Education:
- Each student must score at or above the 40th percentile of all college-bound persons tested on the American College Testing Program (ACT, score 20) or the Scholastic Aptitude Test (SAT, score 950) and have this score reported as part of their official academic record.
- Have an overall G.P.A. of 2.5.
- Satisfactorily complete EDG 4323 (Professional Teaching Practices).
- Pass the College Level Academic Skills Test (CLAST).
- Submit a formal junior student teaching application to the College of Education Student Internships Office. Must meet the College of Education's requirements for admission to Junior and Senior Year Student Teaching.

Music:
- 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.

Degree Requirements

- All applicants for a teaching certificate in Florida must pass a written competency examination administered by the Florida State Department of Education.
- All applicants for their First Regular Florida Teaching Certificate must satisfy requirements of the Florida Beginning Teacher Program.
- 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, their recital, and their senior year student teaching while attending UCF.
- A GPA of 2.5 is required in all courses attempted.
- Each student must perform a faculty-approved public recital (optional for students in the Elementary School Music Specialization).
- 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
   - Select one two-semester sequence
   - 6 hrs
   - Select MUH 4212 History and Literature II
   - 3 hrs
   C. Mathematical Foundations
   - Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics
   - 3 hrs
   - Select CGS 1060C Intro to Computer Sci
   - 3 hrs
   D. Social Foundations
   - 6 hrs
   E. Science Foundations
   - 6 hrs

2. Common Program Prerequisites (30 hrs)
   - EDF 2005 Introduction to Education
   - 3 hrs
   - EME 1040 Met by CGS1060C or proficiency
   - 3 hrs
   - EDG 2701 Teaching Diverse Populations
   - 3 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 Ensembles-4 semesters
   - 4 hrs
   - MVB/MVK/MVP/
   - MVS/MVV/MVW Performance 4 semesters
   - 8 hrs
   - MVK 1111-2121* Class Piano I-II (or proficiency)
   - 0-2 hrs
   *See Transfer Notes for possible substitutes.

3. Comprehensive Exam - Music Theory
   - Completion, with at least an 80% score on each of the following components; ear-training, sight-singing, part-writing, visual analysis, counterpoint, instrumentation, and form.
   - Test is to be taken after completing MUT 2117, and before enrolling in MUT 2571.

4. Core Requirements (46 hrs)
   Piano proficiency
   - 0 hrs
   (repeat MVK 3131-4141 Class Piano III-IV until passed)
   - MUE 2040* Intro to Music Education
   - 2 hrs
   - MUS 1010 Music Forum (6 semesters)
   - 0 hrs
   - MUT 3571 20th Century Musical Analysis
   - 3 hrs
   - MVB/MVK/MVP/
   - MVS/MVV/MVW Performance
   - 4 hrs
   (2 semesters of Level III)
   - MUN XXXX Major Ensembles
   - 2 hrs
   - MUN XXXX Minor Ensembles
   - 2 hrs
   - MUG 3104 Basic Conducting
   - 2 hrs
   - MUH 4211 History & Literature I
   - 3 hrs
   - MUH 4212 History & Literature II
   - 3 hrs
   - MUE 2040 Intro to Music Education
   - 2 hrs
   - MUE 3440 String Techniques
   - 1 hr
   - MUE 3450 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 Anal. of Critical Issues in Educ.
   - 3 hrs
   - EDG 4323 Professional Teaching Practices
   - 3 hrs
   - EDE 3943 Junior Year Student Teaching
   - 6 hrs
   - MUE 4311 Elem School Music Methods
   - 2 hrs
   - MUE 4330 Secondary School Music Methods
   - 2 hrs

5. Comprehensive Exam - Music History
   Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212.

6. Specialty Requirements (23 hrs)
   Program A - Instrumental
   - MVV 1111 Class Voice
   - 1 hr
   - MVB/MVK/MVP/
   - MVS/MVV/MVW Performance IV
   - 2 hrs
   - MUN XXXX Ensemble
   - 1 hr
   - MVB 1212 Secondary Horn
   - 1 hr
   - MUE 3451 Woodwind Techniques II
   - 1 hr
   - MUG 3302 Instrumental Conduct & Matris
   - 3 hrs

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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>MUS 4044</td>
<td>Seminar in Music Arranging</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUE 4480</td>
<td>Marching Band Techniques</td>
<td>1 hr</td>
</tr>
<tr>
<td>EDE 4943</td>
<td>Senior Student Teaching</td>
<td>12 hrs</td>
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</table>

### Program B - Choral
- MVV 1111: Class Voice (or proficiency) 0-2 hrs
- MUG 3202: Choral Conduct & Matrals 3 hrs
- MVB/MVK/MVP/MVS/MVV Performance IV 2 hrs
- MUN XXXX: Ensemble 1 hr
- FRE 1005: French Diction 1 hr
- GER 1005: German Diction 1 hr
- ITA 1005: Italian Diction 1 hr
- EDE 4943: Senior Student Teaching-Sec 12 hrs
- Restricted Electives 0-2 hrs

### Program C - Elementary School
- MVV 1111: Class Voice (or proficiency) 0-3 hrs
- MVS 1216: Secondary Guitar 1 hr
- MVO 1214: Secondary Recorder 1 hr
- MUE 3930: Special Topics in Elementary School Music (2 semesters) 4 hrs
- EDE 4943: Senior Student Teaching-Sec 12 hrs
- Restricted Electives 2-5 hrs

### 7. Restricted Electives
Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

### 8. Special Non-Course Requirements

#### MUS 1010 - Music Forum
- Native UCF students are required to take 6 semesters of MUS 1010
- Transfer students must take MUS 1010 each term they are enrolled at UCF

#### Comprehensive Exams
- Students are required to take piano until they pass the Piano Proficiency exam
- A comprehensive examination in music theory and music history is required

#### Ensemble Participation
- Major ensemble is comprised of chorus, symphony orchestra, concert band, marching band, and wind ensemble. 4 hours of Jazz Lab may be used as Major Ensemble credit.
- Minor ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, and Jazz Lab.
- Transfer students must take any remaining major ensemble credits during in separate semesters.
- Native UCF students must take each of 4 ensemble credits in a separate semester

#### Student Teaching
- BME students must complete three of their comprehensive examinations before doing their senior student teaching
- Student teaching must be done in the area of specialization

#### Recitals
- BME students must complete three of their comprehensive examinations prior to auditioning for their 30-minute public recital
- BME students may not give their required recital during the semester of their senior student teaching
- Each BME student must perform one faculty-approved, 30 minute public recital. (A recital is optional for the Elementary School Music Specialization)

#### Interview
- After completing Internship I, all music education majors must successfully pass the Preprofessional Interview with the Music Education faculty.

### 9. Departmental Exit Requirements
- A GPA of 2.5 is required in all courses attempted
- Earn a grade of "C" or better in each Music course
- Computer Competency met by CGS 1060, or departmental examination

### 10. Foreign Language Requirements (0-11 hrs)
- Admission: 2 years high school, or 1 year college language (or equivalent proficiency exam) prior to graduation.
- Graduation: None

### 11. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 12. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 32 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

### Total Semester Hours Required
128 hours

### Related Programs: Music Education, Music (BFA), Theatre

### Related Minors: Music, Theatre

### Transfer notes:
- "D" grades from other institutions do not meet departmental 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 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 3 credits at some schools, the extra credit transfer 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 3 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 6 hours (in addition to EDG 2701) which have an international or diversity focus. While native UCF students complete this requirement as part of the GEP, transfer students must take appropriate courses which have been so designated by their previous institution.

### Note:
Students must take a Natural Science class with the lab.
**MUSIC PERFORMANCE: BACHELOR OF MUSIC**

**College of Arts and Sciences**  
**Department of Music, FA 105A**  
E-Mail: music@mail.ucf.edu  
Dr. L. Eubank, (407) 823-2869, fax (407) 823-3378

**Admission Requirements**
- 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

**Degree Requirements**
- 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
- Each student must perform two faculty-approved public recitals
- 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)

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
<th>9 hrs</th>
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<tbody>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td></td>
</tr>
<tr>
<td>Select one two-semester sequence</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select MUH 4212 History and Literature II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
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</tr>
<tr>
<td>Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Prefer CGS 1060C Intro to Computer Sci</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

**2. Common Program Prerequisites**  
(20 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 | Ensemble | (4 semesters) |

(See Specialty requirements for specific requirements and for the credits required)

**3. Comprehensive Exam Music Theory.**
- Completion, with at least an 80% score on each of the following components; ear-training, sight-singing, part-writing, visual analysis, counterpoint, instrumentation, and form.
- Test is to be taken after completing MUT 2117, and before enrolling in MUT 3571

**4. Core requirements (23 hrs)**

| Piano proficiency | 0 hrs |
| repeat MVK 3131-4141 Class Piano III-V until passed | |
| MUS 1010 | Music Forum (8 semesters) | 0 hrs |
| MUT 3571 | 20th Century Musical Analysis | 3 hrs |
| MVB/MVK/MVP/MVS/MVV/MVW Performance (4 semesters including 2 semesters of Level IV) | 8 hrs |
| MUN XXXX | Ensembles | 4 hrs |
| MUG 3104 | Basic Conducting | 2 hrs |
| MUH 4211 | History & Literature I | 3 hrs |
| MUH 4212 | History & Literature II | 3 hrs |

**5. Comprehensive Exam - Music History**
Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212.

**6. Specialty Requirements:**  
(39 hrs)

| Piano | 2 hrs |
| MUL 3400 | Piano Literature I |
| MUL 3401 | Piano Literature II |
| Ensembles | |
| Major Not required | 0 hrs |
| Minor-MUN 3453 Piano | 4 hrs |
| Restricted Electives | 31 hrs |

| Piano Pedagogy | 2 hrs |
| MUL 3400 | Piano Pedagogy I |
| MUL 3401 | Piano Pedagogy II |
| MVK 4640 | Piano Pedagogy I |
| MVK 4641 | Piano Pedagogy II |
| MUS 4401 | Studio Teaching |
| Ensembles | |
| Major Not required | 0 hrs |
| Minor-MUN 3453 Piano | 4 hrs |
| Restricted Electives | 27 hrs |

| Guitar | 4 hrs |
| Ensembles | |
| Major Not required | 0 hrs |
| Minor-MUN 3483 String | 4 hrs |
| Restricted Electives | 35 hrs |

| Voice | 1 hr |
| FRE 1005 | French Diction |
| GER 1005 | German Diction |
| ITA 1005 | Italian Diction |
| MVV 4640 | Voice Pedagogy I |
| MVV 4641 | Voice Pedagogy II |
| MUL 3600 | Song Literature I |
| MUL 3601 | Song Literature II |
| Ensembles | |
| Major-MUN 3313 University Choir | 8 hrs |
| Minor-MUN XXXX | 4 hrs |
| Restricted Electives | 20 hrs |

**All other instruments**
Ensembles
- Major-MUN XXXX | 4 hrs |
- Minor-MUN XXXX | 4 hrs |
- Restricted Electives | 31 hrs |

**7. Restricted Electives**  
(See above)
- Any secondary performance course not in area of major instrument
- Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

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**Completion, with at least an 80% score on each of the following components: ear-training, sight-singing, part-writing, visual analysis, counterpoint, instrumentation, and form.**

**Test is to be taken after completing MUT 2117, and before enrolling in MUT 3571.**

**Core requirements (23 hrs):**
- Piano proficiency
- Repeat MVK 3131-4141 Class Piano III-V until passed
- MUS 1010: Music Forum (8 semesters)
- MUT 3571: 20th Century Musical Analysis
- MVB/MVK/MVP/MVS/MVV/MVW Performance (4 semesters including 2 semesters of Level IV)
- MUN XXXX: Ensembles
- MUG 3104: Basic Conducting
- MUH 4211: History & Literature I
- MUH 4212: History & Literature II

**Comprehensive Exam - Music History:**
Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212.

**Specialty Requirements:**
- Piano
  - MUL 3400: Piano Literature I
  - MUL 3401: Piano Literature II
  - Ensembles
    - Major Not required: 0 hrs
    - Minor-MUN 3453 Piano: 4 hrs
    - Restricted Electives: 31 hrs

- Piano Pedagogy
  - MUL 3400: Piano Pedagogy I
  - MUL 3401: Piano Pedagogy II
  - MVK 4640: Piano Pedagogy I
  - MVK 4641: Piano Pedagogy II
  - MUS 4401: Studio Teaching
  - Ensembles
    - Major Not required: 0 hrs
    - Minor-MUN 3453 Piano: 4 hrs
    - Restricted Electives: 27 hrs

- Guitar
  - Ensembles
    - Major Not required: 0 hrs
    - Minor-MUN 3483 String: 4 hrs
    - Restricted Electives: 35 hrs

- Voice
  - FRE 1005: French Diction
  - GER 1005: German Diction
  - ITA 1005: Italian Diction
  - MVV 4640: Voice Pedagogy I
  - MVV 4641: Voice Pedagogy II
  - MUL 3600: Song Literature I
  - MUL 3601: Song Literature II
  - Ensembles
    - Major-MUN 3313 University Choir: 8 hrs
    - Minor-MUN XXXX: 4 hrs
    - Restricted Electives: 20 hrs

- All other instruments
  - Ensembles
    - Major-MUN XXXX: 4 hrs
    - Minor-MUN XXXX: 4 hrs
    - Restricted Electives: 31 hrs

**Restricted Electives:**
- Any secondary performance course not in area of major instrument
- Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.
8. Special Non-Course Requirements
MUS 1010 Music Forum
- Native UCF students are required to take 8 semesters of MUS 1010
- Transfer students must take MUS 1010 each term they are enrolled at UCF

Comprehensive Exams
- Students are required to take piano until they pass the Piano Proficiency exam
- A comprehensive examination in music theory, and one in music history, are required

Major Ensemble Participation
- Comprised of chorus, symphony orchestra, concert band, marching band, and wind ensemble. 4 hours of Jazz Lab 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 of 8 Major Ensemble credits in a separate semester
- Students taking a course in Performance must concurrently take a major ensemble appropriate to their principal instrument

Minor Ensemble participation
- If Minor Ensemble is taken at UCF, the 4 semester hours of credit must be spread over at least 3 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, and Jazz Lab

Recitals
- Bachelors of Music students must complete their piano proficiency and all but one comprehensive examination before auditioning for their senior 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)

9. Departmental Exit Requirements
- Earn a grade of "C" or better in each Music course
- Computer Competency met by CGS 1060, or departmental examination

10. Foreign Language Requirements
Admission: Met by graduation requirement
Graduation: Two semesters or equivalent proficiency exam.

11. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

12. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are 3 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 2115*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are 3 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, 2211
NURSING: BACHELOR OF SCIENCE

A: BASIC PROGRAM
(For individuals who are not Registered Nurses)

College of Health and Public Affairs
HPB 410, (407) 823-2744
Director: Dr. Elizabeth Stullenbarger

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
- 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
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with a grade of "C" 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 approved by the Florida State Board of Nursing.

Degree Requirements

- 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" 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. Waiver 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
      Select MAC 1104 or MGF 1203
      Select STA 2014
      6 hrs
   D. Social Foundations
      6 hrs
      Select both SYG 2000 and PSY 2013*
      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, you must take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Program Prerequisites
   (22 hrs)
   PSY 2013 General Psychology**
   SYG 2000 Sociology**
   MCB 2005C Health Microbiology
   CHM 1032/L General Chemistry and lab**
   ZOO 3733C Human Anatomy* 4 hrs
   PCB 3070C Human Physiology**
   STA 2014 or 2023 Principles of Statistics**
   SOW 3104 or Assessing Human Development or
   DEP 2004 Developmental Psychology
   HUN 3011 Human Nutrition
* May take Anatomy and Physiology sequence of 6-8 total credits.
** Also meets General Education Requirements. The first semester of a two semester general chemistry course does not meet requirement.

3. Core Requirements
   (62 hrs)
   NUR 3026 Therapeutic Interv. for Health Prof.
   NUR 3065 Health Assessment
   NUR 316S Nursing Research
   NUR 3225 Promoting Physical & Mental Health 5 hrs
   NUR 3225L Clin Prac 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 3XXX Role of the Professional Nurse 1 hr
   NUR 3XXX 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 and Management Principles 3 hrs
   NUR 4945L Directed Nursing Practice 4 hrs
   NUR 4XXX Role Transition 2 hrs
   NUR 4XXX 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)
   4. Nursing Elective:
   Any School of Nursing Elective including HSC4651

5. Departmental Continuation and Exit Requirements
   Completion of all courses in major with a grade of "C" or better
   - UCF overall GPA of 2.5 or above
   - School of Nursing GPA of 2.5 or above
   Total of 120 hrs

6. Electives
   None

7. Foreign Language Requirements
   (0-8 hrs)
   Admissions: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None

8. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Gerontology Certificate, Psychology, Health Services Administration, all health minors

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 2014 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 2013C) (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" or better is required in all prerequisite courses.

Honors
Honors Option Requires:
- Completion of a 3 credit directed readings course
- Completion of a 3 credit thesis course
- Open to students with a 3.5 GPA in Nursing
- Cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Four Year Plan of Study

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Freshman Year</th>
<th>Spring 16 hrs</th>
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<tbody>
<tr>
<td>Fall 14 hrs</td>
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<tr>
<td>CHM 1032C</td>
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<td>PSY 2013</td>
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<tr>
<td>CHM 1032L</td>
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<td>ENC 1102</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3</td>
<td>STA 2014 or STA 2023</td>
</tr>
<tr>
<td>MAC 1104 or MGF 1203</td>
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<td>ZOO 3733C</td>
</tr>
<tr>
<td>BSC 2010C</td>
<td>4</td>
<td>HUN 3011</td>
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<th>Sophomore Year</th>
<th>Fall 16 hrs</th>
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<tr>
<td>SPC 1600C</td>
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<td>EUH 2000 or HUM 2211</td>
<td>3</td>
<td>or AMH 2020</td>
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<tr>
<td>or AMH 2010</td>
<td></td>
<td>MCB 2005C</td>
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<tr>
<td>PCB 3703C</td>
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<td>POS 2041 or ECO 2013</td>
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<tr>
<td>SYG 2000</td>
<td>3</td>
<td>(One Course:)</td>
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<tr>
<td>SOW 3104 or DEP 3004</td>
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<td>ARH 2050, ARH 2051, MUL2010, THE 1020, REL 2302, PHI 2010, LIT 2110, LIT 2120</td>
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<tr>
<th>Summer 8 hrs</th>
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<tr>
<td>(Foreign Lang I)</td>
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(Foreign Lang II) 4 if not satisfied in high school

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<tr>
<th>Junior Year</th>
<th>Fall 14 hrs</th>
<th>Spring 14 hrs</th>
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<tr>
<td>NUR 3825 Role/func pro nur 1</td>
<td>NUR 3xxx Pathophysiology</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3065 Health assessment</td>
<td>NUR 3235 Prom physical &amp; mental health</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3026 Therapeut interv</td>
<td>NUR 3617 Prom health comm</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3616 Health families across lifespan</td>
<td>NUR 3616L Clin pract w/ healthy families</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Summer A 6 hrs</th>
<th>NUR 3165 Nursing research</th>
<th>NUR 3xxx Elective</th>
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</thead>
</table>

<table>
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<th>Senior Year</th>
<th>Fall 14 hrs</th>
<th>Spring 14 hrs</th>
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</thead>
<tbody>
<tr>
<td>NUR 4745 Nsg. care clients w/acute illness</td>
<td>NUR 4xxx Role transition 2</td>
<td></td>
</tr>
<tr>
<td>NUR 4745L Clin pract in caring for acute illness</td>
<td>NUR 4636L Clin pract in comm nsg prac 2</td>
<td></td>
</tr>
<tr>
<td>NUR 4525 Nsg. indiv. mental 2</td>
<td>NUR 4525L Clin pract mental 1</td>
<td></td>
</tr>
<tr>
<td>NUR 4827 Leader &amp; manage 3</td>
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</tr>
</tbody>
</table>

Other Information about tuition, fees, and length of nursing program can be obtained from the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, NY 10014. (800) 669-9656, ext. 153.
## NURSING: BACHELOR OF SCIENCE

### B. RN TO BSN PROGRAM
(Completion program for individuals who are RNs licensed in the State of Florida)

College of Health and Public Affairs  
HPB 410, (407) 823-2744  
RN to BSN Coordinator: Dr. Linda Hennig

### 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 all program prerequisite courses with at least a grade of "C" or better  
- current RN License in state of Florida  
- Statistics course with grade of "C" or better prior to NUR 3165

### Degree Requirements
- 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 and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" 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 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 1104 or MGF 1203  
  - Select STA 2014 or STA 2023  
- D. Social Foundations  
  6 hrs  
  - Select SYG 2000 or PSY 2013  
  - 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. Program Prerequisites
- Statistics course, 3 hours, with >C required prior to NUR 3165

#### 3. Core Requirements *(55 hrs)*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3809</td>
<td>Transitional Concepts in Nursing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>Health Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3165</td>
<td>Nursing Research</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4084</td>
<td>Transitional Concepts in Nursing II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4635</td>
<td>Scientific Theories of Nursing VI</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

NUR 4827 Leadership and Management Principles 3 hrs  
NUR 4828 Professional Issues and Development 2 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  
  including HSC 4561

#### 5. Departmental Exit Requirements
Completion of all courses in major with a grade of "C" or better
- UCF overall GPA of 2.5 or above  
- School of Nursing GPA of 2.5 or above

#### 6. Electives
One open elective if total number of senior institution credits is less than 60.

#### 7. Foreign Language Requirements *(0-8 hrs)*
**Admissions:** Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** None

#### 8. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall)  
- 60 semester hours earned after CLEP awarded  
- 48 semester hours of upper division credit completed  
- 30 semester hours in regular courses completed at UCF  
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted  
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs of Summer credit (if applicable)

**Total Semester Hours Required** 120 hours

### Related Programs
Health Services Administration, Social Work, All health programs

### Related Minors
Gerontology Certificate, Psychology, Health Services Administration, All health minors

### Sample Plan of Study

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3809</td>
<td>3 NUR 3165</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>3 NUR 4827</td>
</tr>
<tr>
<td>NUR 4828</td>
<td>3 NUR 4945L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester III</th>
<th>Semester IV</th>
<th>Semester V</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 4084</td>
<td>NUR 4635</td>
<td>NUR 4828</td>
</tr>
<tr>
<td>NUR XXXX ( elective)</td>
<td>6 NUR 4945L</td>
<td>2 NUR 4945L</td>
</tr>
</tbody>
</table>

*Elective may be taken at any point.

The following courses cannot be taken out of sequence.

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" or better.
- Prior to NUR 4084  
  Be admitted to the nursing program

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247
Complete general education requirements on A.A. 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 4635
  Complete NUR 4084
    - Submit health form, documentation of current CPR certification, health insurance, and current RN license
Prior to NUR 4828, and NUR 4945L
  Complete NUR 4635

Other
Information about tuition, fees, and length of nursing program can be obtained from the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, NY 10014. (800) 669-9656, ext. 153.

Program offered in Orlando and at branch campuses of Daytona and Brevard and at ORMC and Leesburg (Lake Sumter).

The RN-BSN coursework is also offered via the internet. Some off-campus travel and clinical practica are required. For further information access http://www.cohpa.ucf.edu/nursing
### NURSING: BACHELOR OF SCIENCE

#### C. RN TO MSN OPTION IN NURSING ADMINISTRATION

(Accelerated program for students who are licensed as an RN in the State of Florida and meet general education requirements and prerequisites. This program may not be offered every year. Check with the School of Nursing.)

**College of Health and Public Affairs**

HPB 410, (407) 823-2744

Director: Dr. Elizabeth Stullenbarger

**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 for application materials. All applicants must meet the following criteria:

- Graduate of a state-approved or accredited associate degree or diploma nursing program
- Licensed as an RN in Florida
- Completion of general education requirements or AA degree from a state of Florida school
- Completion of prerequisites for the RN-BSN and MSN nursing track
- Minimum cumulative GPA of 3.0
- Letter of intent to pursue accelerated master’s (RN-MSN track)
- Interview with School of Nursing to assess interest, motivation, and ability to succeed in graduate school
- Completion of 1 year of clinical experience as an RN prior to the first graduate clinical course

**Interim Requirements:**

Completion of the GRE by the end of the second semester in the program.

**Admission Requirements for Graduate Nursing Phase:** (To be met by the end of the third semester of enrollment)

- Accepted as a student into the upper division/professional phase at the UCF School of Nursing
- Completion of all UCF School of Nursing coursework to date with a minimum GPA of 3.0
- A minimum combined GRE score of 1000 on the verbal/quantitative exams
- A resume
- Three references
- Interview with faculty

**Degree Requirements**

- 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 usually be completed in the first 60 hours
- A minimum overall GPA of 3.0 and a minimum grade of "C" in prerequisite and upper division courses are required for admission

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#### 1. UCF General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
<td></td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>9 hrs</td>
<td></td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>Select MAC 1104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select STA 2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>Select SYG 2000 or PSY 2013</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one: ECO 2013 or ECO 2023 or POS 2041</td>
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<td></td>
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<tr>
<td>E. Science Foundations:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select BSC 2010C</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>Select CHM 1032</td>
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</tr>
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</table>

#### 2. Program Prerequisites (hours)

Statistics course (STA 2014 (3) hours) with grade of "C" or better required prior to NUR 3165:

STA 2014 or STA 2023 Principles of Statistics

#### 3. Core Requirements (84 hrs)

**Courses BSN**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NUR 3065</td>
<td>Health Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3809</td>
<td>Trans. Concepts in Nursing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4635</td>
<td>Scientific Theories of Nursing VI</td>
<td>6 hrs</td>
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<tr>
<td>NUR 4836</td>
<td>Professional Development Seminar</td>
<td>3 hrs</td>
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<tr>
<td>NUR 4838L</td>
<td>Directed Nursing Practice in Admin</td>
<td>2 hrs</td>
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<tr>
<td>HSA/BA Elective</td>
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<tr>
<td>Validated credit for previous nursing courses</td>
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**Courses Shared BSN/MSN**

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<td>HSA 5198</td>
<td>Information Systems (or Elective)</td>
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<td>NGR 5195</td>
<td>Issues</td>
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<td>NGR 5810</td>
<td>Research Methods</td>
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<tr>
<td>NGR 5720</td>
<td>Organizational Dynamics</td>
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**Courses MSN**

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<td>NGR 5110</td>
<td>Theoretical Bases in Nursing</td>
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<tr>
<td>NGR 6722</td>
<td>Financial Mgmt. And Resource Develop</td>
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<tr>
<td>NGR 6723</td>
<td>Nursing Administration I</td>
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<td>NGR 6724</td>
<td>Nursing Administration II</td>
<td>5 hrs</td>
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<td>NGR 6840</td>
<td>Statistical Methods</td>
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<tr>
<td>NGR 6971</td>
<td>Thesis/Project</td>
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<tr>
<td>HSA XXXX Elective</td>
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#### 4. Upper Division Restricted Elective (3 hrs)

**5. Departmental Exit Requirements**

Completion of all courses in major with a grade of "C" or better

- UCF overall GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

**6. Electives**

4000 level or higher courses from HSA

**7. Foreign Language Requirements (0-8 hrs)**

Admissions: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None
8. University Minimum Exit Requirements
(For students exiting after earning BSN.)

- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hrs of extension, correspondence, CLEP,
  Credit by Exam and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule,
  the CLAST and 9 hrs of Summer credit (if applicable)

Total Semester Hours Required BSN 120 hrs

Related Programs: Health Services Administration, MSN

Related Minors:

Sample Plan of Study

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
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VALIDATED CREDIT 28 hrs

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Other

Information about tuition, fees, and length of nursing program can be obtained from the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, NY 10014. (800) 669-9656, ext. 153.

Program offered at Daytona branch campus.
ORGANIZATIONAL COMMUNICATION: BACHELOR OF ARTS

College of Arts and Sciences
Nicholson School of Communication, COM 240A, (407) 823-2852. E-mail: communication@ucf.edu
Dr. K. Phillip Taylor

Admission Requirements
Application to the School of Communication needed. Only general University admission policies must be met.

Degree Requirements
- Students need to apply to the School office to enter this major. Only general University admission policies must be met.
- Students should consult with a departmental advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.
- 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 1600C Fund Oral Communication 3 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      - Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics 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 (3 hrs)
   SPC 1600C Fund Oral Communication 3 hrs

3. Specific Program Requirements (3 hrs)
   CGS 2580C Word Processor Concepts 1 hr
   CGS 2581C Document Presentation Concepts 1 hr
   CGS 2582C Desktop Publishing Concepts 1 hr

4. Core requirements (30 hrs)
   COM 3011 Comm and Human Relations 3 hrs
   COM 3110 Business and Prof Comm 3 hrs
   COM 3120 Organizational Communication 3 hrs
   COM 3311 Comm Research Methods 3 hrs
   COM 4461 Intercultural Communication 3 hrs
   COM 4906 Comm Research Project or
   COM 4941 Internship
   ENC 3210 Business Report Writing 3 hrs
   SPC 3425 Group Interaction and Decision 3 hrs
   SPC 3445 Leadership 3 hrs
   COM 4462 Conflict Management 3 hrs

5. Upper Division Restricted Electives (6 hrs)
   A minimum of six (6) upper division credit hours selected from courses in Business Law, Management, Marketing, or Hospitality

6. School Exit Requirements
   - Achieve an overall "C" GPA (2.0) 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.

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 advisors approval. May be taken outside the School of Communication.

9. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded.
   - 48 semester hours of upper division credit completed.
   - 30 semester hours in regular courses completed at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

Related Programs: Interpersonal Communication

Related Minors: Interpersonal Communication

Transfer notes:
- "D" grades from other institutions do not meet School 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.
PHILOSOPHY: BACHELOR OF ARTS

College of Arts and Sciences
Philosophy Department, FA 411, E-mail: philosophy@ucf.edu
Dr. S. Park, (407) 823-2273

Admission Requirements  None

Degree Requirements
- Students must earn at least a "C" in each required course
- 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 Philosophy Department
- At least 21 of the 27 Core hours must be upper division
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in Philosophy Degree:
Additional Requirements  (6 hrs)
- Application and admission through the Philosophy Honors Coordinator
- Fulfill University requirements for Honors in the Major
- Earn a "B+" or better in Honors Directed Readings (3 hours), and Metaphilosophy (3 hours) which serves as the Honors Thesis course
- Maintain an overall GPA of at least 3.2 and a Philosophy GPA of at least 3.5
- Successful completion and oral defense of Honors Thesis
- Approval of the Departmental Honors Committee

1. UCF General Education Program  (36 hrs)
A. Communication Foundations  9 hrs
B. Cultural and Historical Foundations
   Select a 2 course sequence from listing  6 hrs
   Select PHI 2010 Intro to Philosophy  3 hrs
C. Mathematical Foundations
   Select MAC 1104 College Algebra or MGF 1203 Finite Mathematics  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  None

3. Core requirements*  (27 hrs)
History of Philosophy: Select from the following:  9 hrs
PHH 3041 Russian Philosophy
PHH 3100 Ancient Philosophy
PHH 3200 Medieval Philosophy
PHH 3400 Modern Continental Philosophy
PHH 3402 Modern British Philosophy
PHH 3601 Contemp Continental Philosophy
PHH 3620 Contemp Analytic Philosophy
Analytical Reasoning: Select from the following:  9 hrs
PHI 2011 Philosophical Reasoning
PHI 2101 Critical Thinking
PHI 3130 Formal Logic I
PHI 3131 Formal Logic II
PHI 3320 Philosophy of Mind
PHI 4360 Theories of Knowledge
PHI 4400 Philosophy of Science
PHI 4420 Philosophy of Social Science

Society, Culture & Values: Select from the following:  9 hrs
PHI 2600 Ethics
PHI 3022 Sexuality, Gender & Philosophy
PHI 3400 Philosophy of Law
PHI 3601 Practical Wisdom
PHI 3640 Environmental Ethics
PHI 3670 Ethical Theory
PHI 3700 Philosophy of Religion
PHI 3800 Aesthetics
PHI 3803 Philosophy & Creativity
PHI 4802 Critical Theory and Practice I
PHI 4804 Critical Theory and Practice II
PHM 3100 Freedom and Justice
PHM 3123 Feminist Theory
PHP 3786 Existentialism

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior departmental advisor approval.

4. Upper Division Restricted Electives  (6 hrs)
Select six hours of approved courses in Philosophy or related areas, subject to departmental advisor approval.

5. Departmental Exit Requirements  (3 hrs)
PHI 4933 Metaphilosophy  3 hrs
- Maintain a minimum GPA of 2.0 in upper division required courses
- Computer Competency met by PHI 4933

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required  120 hours

Related Programs: Humanities

Related Minors: Philosophy, Humanities, Religious Studies

Transfer notes:
- "D" grades from other institutions do not meet departmental 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.
PHYSICAL EDUCATION:
BACHELOR OF SCIENCE

College of Education
Physical Education Department, ED214, (407) 823-2050
Coordinator: Dr. Patricia Higginbotham

Admission Requirements:
- have on file in the University admissions office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University admissions office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student’s major
- meet any special departmental requirements

Degree Requirements:
- Students should consult with an advisor
- 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
      Select *SPC 1600C Fundamentals of Oral Comm
      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
   B. Cultural-Historical Foundations 9 hrs
      Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020
      Select one course from ARH 2050, 2051; MUL 2010, THE1020, REL 2300; PHI 2010; LIT 2110; LIT 2120
   C. Mathematical Foundations 6 hrs
      Select Ten Semester College Algebra or *MGF 1203 Finite Math
      Select CGS 1060C Intro Comp Sci or STA 2023 Statistical Math
   D. Social Foundations 6 hrs
      Select *PSY 2013 Gen Psychology or *SYG 2000 Gen Sociology
      ECO 2013 Princ of Economics or POS 2041 Amer Nat Gov’t
   E. Science Foundations 6 hrs
      Select PSC 1121 Physical Science
      Select BSC 1020 Biological Principles
      * College Preprofessional Requirement.
      At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.
      **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites (9 hrs)
   EDF 2005 Introduction to Education 3 hrs
   *EDG 2701 Teaching Diverse Populations 3 hrs
   EME 1040 Intro to Technology 3 hrs

*In addition to EDG2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

PLUS the following General Program Prerequisites:
Anatomy & Physiology I w/Lab 3-4 hrs
Anatomy & Physiology II w/Lab

3. Preprofessional Requirements
   * See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSY 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra or
   MGF 1203 Finite Math
   MCB 3930 Human Anatomy/Exercise

4. Education Core Requirements: (9 hrs)
   EDG 4323 Professional Teaching Practices 3 hrs
   EDF 4603 Anal of Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs

5. Internship I Block (10 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily and completed 2/3 of Specialization Requirements before student teaching.
   PET 3720C Teaching PE K-8 2 hrs
   PET 3740C Teaching PE 6-12 2 hrs
   EDE 3942.03 Internship I (Elem) 6 hrs

6. Specialization Core Requirements (24 hrs)
   DAE 3370 Dance & Rhythms 3 hrs
   PEP 3205 Gymnastics 3 hrs
   PET 3041 Games Elem PE Pgm 3 hrs
   PET 4035 Motor Dev/Lrng 3 hrs
   PET 4312 Biomechanics 3 hrs
   PET 4351 Ap Exer Hum Phys 3 hrs
   PET 4401 Adm Eval PE 3 hrs
   PET 4640 Adapted PE 3 hrs
   *PEO 2111 Team Sports 3 hrs
   *PEO 2031 Ind Spf Lei Act 3 hrs
   *PET 2622 Hum Inj 3 hrs
   *If these courses have been taken at a community college they do not need to be taken at UCF.

7. Internship II (ESE 4943.07) (12 hrs)
   A student must have completed the portfolio process for Internship II Satisfactorily before student teaching

8. Add Courses 6-12 Certification (6 hrs)
   PET 3765 Coaching Theory & Officiating 3 hrs
   PET 4382 Fitness Assessment 3 hrs

9. Additional Courses for Coaching Endorsement (6 hrs)
   PET 3765 Coaching Theory & Officiating 3 hrs
   PET 3642 Coaching Football or 3 hrs
   PET 3644 Coaching Basketball or 3 hrs
   PET 3324 Coaching Volleyball or 3 hrs
   PET 3930 Coaching Soccer 3 hrs
10. Foreign Language Requirements (0-6 hrs)
State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

11. Departmental Exit Requirements
Achieve a 2.5 GPA in all courses within the major

12. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

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.
PHYSICAL THERAPY: BACHELOR OF SCIENCE

College of Health and Public Affairs
TR 544 (407) 823-3470
Undergraduate Program Director: Eileen Hamby

Admission Requirements - LIMITED ACCESS
Acceptance to the university does not necessarily constitute admission to the upper division physical therapy 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. (Application to the university must be made by February 1 prior to request for separate application.)
- All prerequisite courses must be completed by the end of the final term preceding admission to the program
- All general education and foreign language admission requirements must be completed prior to the start of the program
- All applicants must have a minimum overall GPA of 3.0, a minimum prerequisite GPA of 3.0, and complete all program prerequisite courses with at least a grade of "C". (No CLEP, TSD, or AP credit may be used for prerequisite courses.)
- A minimum of 200 documented clock hours experience working, volunteering or shadowing in four (4) physical therapy facilities or areas of expertise with 50 hours in each area with a licensed physical therapist by the application deadline
- Personal qualifications include intelligence, initiative, interpersonal abilities and leadership potential
- An interview is conducted with selected applicants as a final process

NOTE: Approximately 28 students are accepted to this program each year. Once admitted, the entry-level professional curriculum is a full-time program. It is six consecutive semesters in length, including clinical practicums and internships ranging from one week to seven weeks.

Degree Requirements
- 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 (General Education) and 2 (Common Program Prerequisites) below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 3.0 and a minimum grade of "C" in prerequisite and major courses is required for admission to, continuation in, and graduation from the Physical Therapy Program
- UCF Residency Requirement: 31 hours
- 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
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
  Select MAC 1104
  Select STA 2023
D. Social Foundations 6 hrs
  Select PSY 2013
E. Science Foundations 6 hrs

Select BSC 2010C
Select CHM 2045

2. Common Program Prerequisites (23 hrs)
PSY 2013 General Psychology GEP
DEP 2004 Developmental Psychology 3 hrs
BSC 2010C General Biology I GEP
BSC 2011C General Biology II 4 hrs
CHM 2045 Chemistry Fundamentals I GEP
CHM 2046 Chemistry Fundamentals II 4 hrs
PCB 3703C Human Physiology* 4 hrs
STA 2023 Statistical Methods I GEP
PHY 2053C College Physics I 4 hrs
PHY 2054C College Physics II 4 hrs
* See Transfer Notes

3. Core Requirements* (41 hrs)
First Professional Year
  See department for details.
Second Professional Year (22 hrs)
  See department for details.
*Current curriculum is under revision for possible implementation of a master's entry-level degree in fall 1998.

4. Upper Division Restricted Electives None

5. Departmental Exit Requirements
To be eligible for a baccalaureate degree in physical therapy, a student must complete all academic and clinical education courses prescribed in the professional curriculum, as shown in Section 3 above, with no grade less than "C", and be recommended for the degree by the academic and clinical faculty.

6. Electives None

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: None

8. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 34 semester hours in regular courses completed at UCF
- A maximum of 45 hrs of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 135 hrs

Related Programs: Cardiopulmonary Sciences, Radiologic Sciences, Nursing, Communicative Disorders, Health Service Administration.

Related Minors: Health Services Administration, Business

Transfer Notes:
Behavioral Sciences:
  a. General Psychology (PSY X012 or X013)
  b. Developmental Psychology (DEP X004)
Natural Sciences and Mathematics:
  a. Biology - General Biology I & II (BSC X010C and X011C or ZOO X010C) with labs
b. Human Physiology or Anatomy & Physiology I & II with labs (BSC X085C and X086C or X093C and X094C)
c. Chemistry I & II - for science majors with labs (CHM X045 and X046)
d. Statistics for science majors (STA X023)
e. Physics - College Physics I & II (algebra based), or University Physics (calculus based), with labs (PHY X053C and X054C; or 2004C and 2005C)

It is recommended that students have basic computer literacy.

FRESHMEN ARE ENCOURAGED TO FOLLOW THE 2 1/2 YEAR PLAN UNLESS THEY ARE TRANSFERRING IN CLEP, AP, OR TSD FOR GENERAL EDUCATION COURSEWORK.

Suggested Two Year Plan
See department for details.

Suggested 2 1/2 Year Plan
See department for details.

Note:
This curriculum is being reviewed and is subject to change. An entry-level Master's program is being designed. A start date has not yet been determined, but may replace the curriculum being presented (and may be implemented for the class being admitted in 1998). Please check with the physical therapy program office for the current curriculum.
PHYSICS: BACHELOR OF SCIENCE

College of Arts and Sciences
Physics Department, HPB 310, (407) 823-2325,
E-mail: physics@ucf.edu
Dr. R. Llewellyn, (407) 823-2325

Admission Requirements None

Degree Requirements
- Honors sections of the introductory physics sequence are available to students with appropriate academic standing
- "D" grades 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 (39 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 2311 Calculus 4 hrs
      Select STA 2023 Principles of Statistics, or CGS 1060C Intro to Computer Sci 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 (28 hrs)
   CHM 2045* Chem Fund I 4 hrs
   CHM 2046 & L Chem Fund II with lab 4 hrs
   MAC 2311 Calculus w/ Anal Geometry I 4 hrs
   MAC 2312 Calculus w/ Anal Geometry II 4 hrs
   MAC 2313 Calculus w/ Anal Geometry III 4 hrs
   PHY 2048 & L Physics Engr & Sci I & Lab 4 hrs
   PHY 2049 & L Physics Engr & Sci II & Lab 4 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (43 hrs)
   BSC 2010C General Biology 4 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 I 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 3752C Physics of Sci Instruments 3 hrs
   PHY 4604 Wave Mechanics I 3 hrs
   PHY 4605 Wave Mechanics II 3 hrs
   PHY 3802L Intermediate Physics Lab 3 hrs
   PHY 4803L Advanced Physics Lab 3 hrs
   PHY 4912 Directed Independent Research 3 hrs

4. Upper Division Restricted Electives: (15 hrs)
   PHY, PHZ, or AST courses 6 hrs
   Courses approved by the departmental advisor 9 hrs

All courses must be taught within the Physics, Mathematics or Statistics departments.

5. Departmental Exit Requirements
   - Achieve at least a 2.0 GPA in all courses counted toward the major
   - Computer Competency met by CGS 1060C or a departmental exam

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Mathematics

Related Minors: Physics, Math

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- CHM 2045*: may use CHM 1040 plus CHM 1041

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POLITICAL SCIENCE: BACHELOR OF ARTS

College of Arts and Sciences
Political Science Department, FA 415, (407) 823-2608
E-mail: politics@ucf.edu
Dr. R. Bledsoe, (407) 823-2608

Admission Requirements None

Degree Requirements
- 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 3 hrs
      Prefer AMH 2020/US History: 1877-Present 3 hrs
      Select from GEP list 3 hrs
   C. Mathematical Foundations 6 hrs
   D. Social Foundations
      Select POS 2041 American National Gvt 3 hrs
      Select one of the three choices 3 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (6 hrs)
   POS 2041* American National Gvt 3 hrs
   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
      POS 4284 Judicial Process and Politics 3 hrs
      One of the following:
      POS 4603 American Constitutional Law I
      POS 4604 American Constitutional Law II
      INR 4401 International Law I
      INR 4402 International Law II
      Select one
      Five courses from area A and 15 hrs
      Two courses from area B or 6 hrs
      Two courses from area A and
      Five courses from area B 15 hrs
      One course from area C 3 hrs

AREAS OF SPECIALIZATION
A. American Politics and Policy
   POS 3122 State Government
   POS 3173 Southern Politics
   POS 3233 Political Opinion
   POS 3235 Mass Media and Politics
   POS 3273 Voting and Elections
   POS 3413 The American Presidency
   POS 3424 Congress and the Legislative Process
   POS 3443 Political Parties and Processes
   POS 3463 Interest Groups
   POS 4142 Metropolitan Politics
   POS 4206 Political Psychology
   POS 4246 Political Socialization
   POS 4265 Power and Policy in the United States
   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 3204 Environmental Politics
   PUP 3314 Minorities in American Politics
   PUP 4003 American Public Policy
   PUP 4323 Women and Politics
   PUP 4503 Government and Science
   PUP 4602 Politics of Health
   PUP 4931 Topics in Public Policy

B. International Relations and Comparative Government
   CPO 3034 Politics of Developing Areas
   CPO 3103 Comparative Politics
   CPO 3104 Politics of Western Europe
   CPO 3132 Canadian Studies
   CPO 3403 Politics of the Middle East
   CPO 3614 Politics of Eastern Europe
   CPO 4062 Comparative Judicial Processes
   CPO 4123 Government and Politics of Great Britain
   CPO 4133 Government and Politics of the Middle East
   CPO 4303 Comparative Latin American Politics
   CPO 4643 Government and Politics of Russia
   GEO 3470 World Political Geography
   INR 2002 International Relations
   INR 3253 International Politics of Africa
   INR 4035 International Political Economy
   INR 4102 American Foreign Policy
   INR 4114 American Defense 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 4401 International Law I
   INR 4402 International Law II
   INR 4404 Space Law
   INR 4502 International Organizations
   POS 3253 Contem Revolution & Political Violence
   PUP 3508 Space Studies
   PUP 4510 Space Policy

C. Political Theory
   POS 4206 Political Psychology
   POT 3204 American Political Thought
   POT 3302 Modern Political Ideologies
   POT 4003 Political Theory
   POT 4025 Ancient, Medieval and Early Modern Political Philosophy
   POT 4054 Modern Political Philosophy
   POT 4066 Contemporary Political Theory

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POT 4314  Contemporary Democratic Theory
POT 4414  Marxist Political Theory
POT 4632  Religion and Politics

5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

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.

Internship Program: Political Science
For students who excel, a limited number of internships may be
available each semester for 3 to 6 hours of credit. Under the
Internship Director, the student is typically placed in an office of
local, state, or national government, a law office, or campaign
headquarters.

8. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP,
  Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the
  CLAST and 9 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:
- "D" grades from other institutions do not meet departmental
  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 common program prerequisites if taken
prior to transferring to UCF:
- POS 2041*: may use any introductory Political Science course
  with a POS, INR, or CPO prefix. However POS 2041 is a
  prerequisite for all subsequent Political Science courses and will
  need to be taken for the major.
- POS 3703*: may use any introductory Political Science course
  with a POS, INR, or CPO prefix. However, POS 3703 is still
  required and must be taken for the major.
POLITICAL SCIENCE - PRELAW: BACHELOR OF ARTS

College of Arts and Sciences
Political Science Department, FA 415, (407) 823-2608
E-mail: politics@ucf.edu
Dr. R. Bledsoe, (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 breadth 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
- 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)
   Communication Foundations 9 hrs
   Cultural and Historical Foundations
   Prefer AMH 2010 US History: 1492-1877 3 hrs
   Prefer AMH 2020 US History: 1877-Present 3 hrs
   Select from GEP list 3 hrs
   Mathematical Foundations 6 hrs
   Social Foundations
   Select POS 2041 American National Gvt 3 hrs
   Select one of the three choices 3 hrs
   Science Foundations 6 hrs

2. Common Program Prerequisites (6 hrs)
   POS 2041* American National Gvt 3 hrs
   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
   One of the following:
   POS 4603 American Constitutional Law I 3 hrs
   POS 4604 American Constitutional Law II 3 hrs
   INR 4401 International Law I 3 hrs
   INR 4402 International Law II 3 hrs
   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
   One course from area C 3 hrs

5. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in the major
   - Computer Competency met by POS 3703

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.
   Some suggested electives Include:
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   BUL 3320,3321 Business Law I & II
   PLA 3105 Legal Research
   PLA 3155 Legal Writing
   PHI 2101 Critical Thinking
   PHI 3130 Formal Logic I
   PHI 3131 Formal Logic II
   MHF 2300 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 3 to 6 hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements
   - A "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- POS 2041*: may use any introductory Political Science course with a POS, INR, or CPO prefix. However POS 2041 is a prerequisite for all subsequent Political Science courses and will need to be taken for the major.
- POS 3703*: may use any introductory Political Science course with a POS, INR, or CPO prefix; however, POS 3703 is still required and must be taken for the major.
PSYCHOLOGY: BACHELOR OF ARTS

College of Arts and Sciences
Psychology Department, PH 302B, (407) 823-2216
E-mail: psychology@ucf.edu
Dr. J. McGuire, (407) 823-2216

Students majoring in Psychology as the foundation of a Liberal Arts degree will probably find the BA option an appropriate degree.

Admission Requirements None

Degree Requirements
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a "C" in each Psychology course counted toward the major requirements
- 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

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"
- Have an overall UCF GPA above 3.2
- PSY 3970H Directed Honors Readings 3 hrs
- PSY 4903H 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 MAC 1104 College Algebra (or higher) 3 hrs
      Select STA 2023 Statistical Methods I* 3 hrs
   D. Social Foundations
      Select one of the listed choices 3 hrs
      Select PSY 2013 General Psychology 3 hrs
   E. Science Foundations
      Select BSC 1020 Biological Principles 3 hrs
      Select one of the listed choices 3 hrs
*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (9 hrs)
   BSC 1020* Biological Principles 3 hrs
   PSY 2013* General Psychology 3 hrs
   STA 2023* Statistical Methods I 3 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (10 hrs)
   PSY 3214C Research Methods 4 hrs
   EXP 3404 Basic Learning Processes 3 hrs
   PSB 3002 Physiological Psychology 3 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 any two additional Psychology courses 6 hrs

5. Diversity (9 hrs)
   Take three (3) diversity courses: one from A, one from B, and one from either A or B (see following lists).
   A. Psychology Diversity courses
      DEP 3464 Psychology of Aging
      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 upper division courses outside the Psychology department that focus on gender, class, or minority issues:
      AMH 3561, 3562, 3571, 3566; AML 3614, 4261; ANT 2410, 2511, 3302, 3311, 3312, 3313, 3332, 3363, 3422, 3541, 3610; ARH 3520, 4588; ASH 4404, 4442; CCJ 4670; CLA 3851; COM 4461; CPO 3403; EUH 4576; GEO 3470; HSC 4564; HUM 3401, 3418; JST 3401; LAH 3310, 3320, 3400, 3571; LIT 3354, 3383; PHI 3022; PHS 3123; POS 4264, 4622; PUP 3314, 4323; SPA 4380, 4381; SYD 3700, 3800; SYG 3010; SYP 4730, 4932; WST 3010.

6. Departmental Exit Requirements
- Earn a grade of "C" or better in each psychology course used for major
- Maintain a 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- BSC 1020*: any lower level BSC course or ZOO X010.
- PSY 2013*: any PSY course. However PSY 2013 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023*: any lower level STA course. However STA 2023 (or STA 2014) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
PSYCHOLOGY: BACHELOR OF SCIENCE

College of Arts and Sciences
Psychology Department, PH 302B, (407) 823-2216
E-mail: psychology@ucf.edu
Dr. J. McGuire, (407) 823-2216

Students who intend to seek graduate training in psychology or a related field at the doctoral level are strongly encouraged to complete the program of study leading to the BS degree.

Admission Requirements
None

Degree Requirements
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a "C" in each Psychology course counted toward the major requirements
- 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

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"
- Have an overall UCF GPA above 3.2
- PSY 3970H Directed Honors Readings 3 hrs
- PSY 4903H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (37 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MAC 1104 College Algebra (or higher) 3 hrs
   Select STA 2023 Statistical Methods I* 3 hrs
D. Social Foundations
   Select one of the listed choices 3 hrs
   Select PSY 2013 General Psychology 3 hrs
E. Science Foundations
   Select BSC 2010C General Biology 4 hrs
   Select one of the listed choices 3 hrs
*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (10 hrs)
BSC 2010C General Biology 4 hrs
PSY 2013 General Psychology 3 hrs
STA 2023 Statistical Methods I 3 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (14 hrs)
PSY 3214C Research Methods 4 hrs
EXP 3404 Basic Learning Processes 3 hrs
PSB 3002 Physiological Psychology 3 hrs
PSY 4215C Advanced Research Methods 4 hrs

4. Restricted Electives (14 hrs)
A. Select two of the following courses 6 hrs

DEP 2004 Developmental Psychology
PPE 3003 Personality Theory
SOP 3004 Social Psychology
B. Select one Psychology upper level lab course - consult with advisor 2 hrs
C. Free Psychology electives - any additional six 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 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 upper division courses outside the Psychology department that focus on gender, class or minority issues.

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"
- Have an overall UCF GPA above 3.2
- PSY 3970H Directed Honors Readings 3 hrs
- PSY 4903H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (37 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MAC 1104 College Algebra (or higher) 3 hrs
   Select STA 2023 Statistical Methods I* 3 hrs
D. Social Foundations
   Select one of the listed choices 3 hrs
   Select PSY 2013 General Psychology 3 hrs
E. Science Foundations
   Select BSC 2010C General Biology 4 hrs
   Select one of the listed choices 3 hrs
*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (10 hrs)
BSC 2010C General Biology 4 hrs
PSY 2013 General Psychology 3 hrs
STA 2023 Statistical Methods I 3 hrs
*See Transfer Notes for possible substitutes

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PSY 3214C Research Methods 4 hrs
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PSY 4215C Advanced Research Methods 4 hrs

4. Restricted Electives (14 hrs)
A. Select two of the following courses 6 hrs

DEP 2004 Developmental Psychology
PPE 3003 Personality Theory
SOP 3004 Social Psychology
B. Select one Psychology upper level lab course - consult with advisor 2 hrs
C. Free Psychology electives - any additional six 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 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 upper division courses outside the Psychology department that focus on gender, class or minority issues.

6. Science Electives (9-12 hrs)
Three courses: two from outside Psychology (see list A)
   one from Psychology (see list B)
(See course listing for prerequisites)
A. COP 3502C Computer Science I
   COP 3503C Computer Science II
   CGS 2100C Computer Fundamental of Business
   MAC 2233 Concepts of Calculus
   MAC 2253 Applied Calculus I
   PCB 3063 & L Genetics with lab
   PCB 3703C Human Physiology
   STA 4102 Computer Process of Stat Data
   ZOO 3733C Human Anatomy
B. EXP 3204C Perception
   EXP 3513 Cognitive Psychology
   PSY 3302 Psychological Measurement
   PSB 4013C Introduction to Neuro Psychology

7. Departmental Exit Requirements
- Earn a grade of "C" or better in each psychology course
- Maintain a minimum psychology GPA of 2.0
- Computer Competency met by PSY 3214C

8. Foreign Language Requirements (0-8 hrs)
Admission: Two (2) years of one (1) foreign language in high school, or one (1) year of foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: None.

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 "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF

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A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

Complete the General Education Program, the Gordon Rule, the CLAST and 9 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**:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- BSC 2010C*: any lower level BSC course or ZOO X010. However, BSC 2010 is a prerequisite for all subsequent Biology courses and thus may need to be taken.
- PSY 2013*: any PSY course. However, PSY 2013 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023*: any lower level STA course. However, STA 2023 (or STA 2014) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
PUBLIC ADMINISTRATION:
BACHELOR OF ARTS

College of Health and Public Affairs
HPB 202, (407) 823-2604
Chair: Wendell Lawther

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” 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 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 (9 hrs required for major)  6 hrs
   Select ECO 2013 and POS 2041, and PST or SYG
E. Science Foundations  6 hrs

2. Common Program Prerequisites  (3 hrs)
CGS 1060C Intro to Computer Science  GEP
POS 2041 American National Government  GEP
ECO 2013 Principles of Economics I  3 hrs

3. Core Requirements  (21 hrs)
ENC 3210 Business Report Writing  3 hrs
PAD 3003 Public Administration 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  (27 hrs)
Public Administration electives, (including internship minimum 2.5 GPA) are required as follows:
- Double Majors, those who complete a PAD major, and those of another UCF major, must take a minimum of 6 hrs PAD prefixed electives
- Those who complete a recognized UCF minor in a discipline outside Public Administration must take a minimum of 9 hrs PAD prefixed electives
- All other PAD majors must complete at least 12 hrs of PAD prefixed 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 (3-4000 level).

5. Departmental Exit Requirements
The students must attain a minimum grade of “C” 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)

7. Foreign Language Requirements  (0-8 hrs)
Admissions: Two (2) years of one foreign language in high school, or one (1) 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.

8. University Minimum Exit Requirements
- A “C” GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hrs 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 1060) 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

Honors
Honors Option Requires:
- Completion of a 3 credit directed readings course
- Completion of a 3 credit thesis course
- Open to students with a 3.5 GPA in Public Administration
- Cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Four Year Plan of Study

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<th>Freshman Year*</th>
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<tr>
<td>ENC 1101</td>
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<td>MGF 1203 or MAC 1104</td>
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<td>POS 2041</td>
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<td>PSC 1121 or CHM 1020</td>
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<td>One Course: ARH 2050</td>
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<td>THE 1020, REL 2300,</td>
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<td>PHI 2010, LIT 2110, LIT 2120</td>
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**Summer**  
8 hrs  
(Foreign Lang I)  
4  
(Foreign Lang II)  
4  

*Plan your required 9 summer hours into your course of study*

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</table>

**Minor**

All seven of the 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, PAD 4270, and ENC 3210.
RADIO-TELEVISION: BACHELOR OF ARTS

College of Arts and Sciences
Nicholson School of Communication, COM 240A, (407) 823-2681, E-mail: radiotv@ucf.edu
Dr. J. Maunez
Limited Access program.

Admission Requirements
• Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are:
  October 10, 1998 for Spring 1999
  March 7, 1999 for Summer 1999
  July 7, 1999 for Fall 1999
• 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 FOR THE 1997-1998 YEAR WAS 2.75.
• Pass a grammar examination involving basic proficiency in grammar, punctuation, and word usage. Testing is conducted prior to and throughout each semester, and remedial options are provided.
• Pass a computer and Keyboard Proficiency Test (20 wpm). The test may be taken ONLY three times. Completion of a basic college keyboard or typing course with a grade of "C" will satisfy the requirement.

Degree Requirements
• Students are encouraged to work with WUCF radio to gain practical experience.
• Students may complete an internship off campus in a professional broadcast, production, or corporate operation
• 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" 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 1600C Fund Oral Communication 3 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 (3 hrs)
   SPC 1600C Fund Oral Communication

3. Core requirements (27 hrs)
   RTV 3000 Foundations of Broadcasting 3 hrs
   RTV 3200 Broadcast Techniques 4 hrs
   RTV 3210 Radio Production 4 hrs
   RTV 3260 Electronic Field Production 4 hrs
   RTV 3304* Broadcast Newswriting 4 hrs
   RTV 3501* Broadcast Copy writing 3 hrs
   RTV 4403 Radio/Television and Society 3 hrs
   RTV 4700 Broadcast Regulations 3 hrs
   RTV 4800 Broadcast Management 3 hrs

*Prerequisite Grammar Proficiency Examination and Keyboard Proficiency Test required.

4. Upper Division Restricted Electives (6 hrs)
• Six credit hours in the School of Communication
• A maximum of 3 credit hours of internship may be counted as a Restricted Elective

5. 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

6. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam.

7. Electives (variable)
Select primarily from upper level courses, with School advisor’s approval. May be outside of the School.

8. University Minimum Exit Requirements
• A "C" GPA (2.0) in all work attempted (both UCF and overall)
• 60 semester hours earned after CLEP awarded
• 48 semester hours of upper division credit completed
• 30 semester hours in regular courses completed at UCF
• A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
• Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Advertising/Public Relations, Journalism, Film & Animation, Theatre

Related Minors: Theatre

Transfer notes:
• "D" grades from other institutions do not meet School 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.
RADIOLOGIC SCIENCES: BACHELOR OF SCIENCE

College of Health and Public Affairs
HPB 128, (407) 823-2747
Undergraduate Program Director: Thomas Edwards

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 prior to February 1 of the year admission is sought. 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 CLEP, TSD, or AP credit may be used for prerequisite courses.)

Degree Requirements
• 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" in prerequisite and major courses is required for admission to, continuation in and graduation from the Radiologic Sciences Program
• UCF Residency Requirement for Radiation Therapy: 34 hours
• UCF Residency Requirement for Radiography: 33 hours
• 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
B. Cultural Historical Foundations
   9 hrs
C. Mathematical Foundations
   6 hrs
   Select MAC 1104
   Select MAC 1104C
D. Social Foundations
   6 hrs
E. Science Foundations
   6 hrs
   Select BSC 2010C
   Select PHY 2053 and lab

2. Common Program Prerequisites (12 hrs)
   CGS 1060C Introduction to Computer Science
   PCB 3703C Human Physiology*
   PHY 2053C College Physics I
   PHY 2054C College Physics II
   ZOO 3733C Human Anatomy*
   MAC 1104 College Algebra
   * See Transfer Notes

3. Core Requirements (76/79 hrs)
The baccalaureate Radiologic Sciences program is designed with two areas of specialization: Radiography and Radiation Therapy.

JUNIOR LEVEL - Radiography
RTE 3000 Introduction to Radiologic Sciences 3 hrs
RTE 3111C Introduction to Patient Care 2 hrs
RTE 3503C Radiographic Procedures I 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 3367 Medical Physics 3 hrs
STA 2023 Statistical Methods I 3 hrs
HSC 4550 Pathophysiologic Mechanisms 3 hrs

SENIOR LEVEL - Radiography
RTE 4563 Special Radiographic Procedures 2 hrs
RTE 4782 Pathophysiology 2 hrs
RTE 4814 Clinical Education II 5 hrs
RTE 4824 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 4763 Anatomy for the Medical Imager 3 hrs
HSC 4243 Analysis of Instruction in the Health Professions 3 hrs
RTE 4854 Advanced Clinical Practice 2 hrs
RTE 4207 Methods in Radiology Management 3 hrs

JUNIOR LEVEL - Radiation Therapy
RTE 3000 Introduction to Radiologic Sciences 3 hrs
RTE 3111C Introduction to Patient Care 2 hrs
RTE 3503C Radiographic Procedures I 3 hrs
RTE 3418C Principles of Radiographic Exposure I 3 hrs
RTE 3804 Clinical Education I 4 hrs
RTE 3457C Principles of Radiographic Exposure II 3 hrs
RTE 3684C Physics of Image Production 2 hrs
HSC 4550 Pathophysiologic Mechanisms 3 hrs
HSC 4243 Analysis of Instruction in the Health Professions 3 hrs
HSC 3640 Health Law 3 hrs

SENIOR LEVEL - Radiation Therapy
RAT 3001 Introduction to Radiation Oncology 3 hrs
RAT 3242 Oncologic Pathology 2 hrs
RAT 3241 Clinical Radiobiology 3 hrs
RAT 3614 Radiation Therapy Physics I 2 hrs
RAT 4804L Clinical Education I 5 hrs
RAT 4247 Radiation Oncology I 3 hrs
RAT 4618C Radiation Therapy Physics II 4 hrs
RAT 4814L Clinical Education II 6 hrs
RAT 4248 Radiation Oncology II 3 hrs
RAT 4616C Radiation Therapy Physics III 4 hrs
RAT 4824 Clinical Education III 6 hrs
STA 2023 Statistical Methods I 3 hrs
RTE 4763 Anatomy for the Medical Imager 3 hrs
RTE 4207 Methods in Radiology Management 3 hrs

4. Upper Division Restricted Electives:
RTE 4209 Radiological Adm. Practice 2 hrs
RTE 4903 Directed Study in Radiologic Educ'n 2 hrs

5. Departmental Exit Requirements (127 hrs)
A minimum overall GPA of 2.50 and a minimum grade of "C" in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.
The programs in Radiography and Radiation Therapy Technology are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the certification exam administered by the American Registry of Radiologic Technologists (ARRT). The
University of Central Florida is the sponsoring institution for the Radiography program. Halifax Hospital Medical Center is the sponsoring institution of the Radiation Therapy program.

6. Electives None

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: None

8. University Minimum Exit Requirements
- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 32 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, Credit by Exam and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required:
Radiation Therapy 127 hrs
Radiography 124 hrs

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 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 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 1104) 3
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

Four Year Plan of Study

<table>
<thead>
<tr>
<th>Radiology Sciences</th>
<th>Freshman Year*</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>ENC 1101</td>
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<td>BSC 2010C</td>
<td>PSY 2013 or SYG 2000</td>
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<td>MAC 1104</td>
<td>MAC 1114</td>
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<td>EUH 2000 or HUM 221 or AMH 2010</td>
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Summer 14 hrs
CGS 1060C 3
PHY 2053 4

Sophomore Year

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<tr>
<td>PHY 2054C</td>
<td>PCB 3703C</td>
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<td>ECO 2013 or POS 2041</td>
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<td>or AMH 2020</td>
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<td>ARH 2051, MUL 2010, 3</td>
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<td>HSC 2000</td>
<td>PHI 2010, LIT 2110, 3</td>
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Junior Year

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<td>HSC 4243</td>
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Summer 13 hrs
STA 2023 3
RTE 4814 5
RTE 3367 3
RTE 4563 2

Senior Year

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<tr>
<td>RTE 4385</td>
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<tr>
<td>RTE 4763</td>
<td>RTE 4854**</td>
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<td>RTE 4824</td>
<td>RTE 4782</td>
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<td>RTE 4473</td>
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<td>Elective:</td>
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<td>RTE 4932</td>
<td>RTE 4209 or RTE 4903</td>
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<tr>
<td>(1)</td>
<td>(2)</td>
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Summer 6 hrs
RTE 4844 4
RTE 4854 2

**Completed during the Spring or Summer semester.

Radiation Therapy

<table>
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<th>Junior Year</th>
<th>Fall</th>
<th>Spring</th>
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</tbody>
</table>

Summer 15 hrs
RAT 3001 3
RAT 3242 2
RAT 3241 3
Fall
16/17 hrs
RAT 4247 3
RAT 4618C 4
RAT 4814L 6
RTE 4763 3
Elective: RTE 4932 (1)

Spring
16/18 hrs
RAT 4248 3
RAT 4619C 4
RAT 4824L 6
RTE 4207 3
Electives: RTE 4209 or RTE 4903 (2)

Senior Year
16/18 hrs
RAT 4248 3
RAT 4619C 4
RAT 4824L 6
RTE 4207 3
Electives:
**SCIENCE EDUCATION - BIOLOGY: BACHELOR OF SCIENCE**

College of Education  
Instructional Programs Department, ED346, (407) 823-2939  
Coordinator: Dr. Judy Johnson

**Admission Requirements**  
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)  
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)  
- present an overall GPA of 2.5  
- achieve a “C” or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent  
- complete a formal application for admission to a particular teacher education program  
- be recommended by the faculty of the department of the student’s major  
- 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 usually be completed in the first 60 hours

1. UCF General Education Program  
   - **A. Communication Foundations**  
     Select *SPC 1600C Fundamentals of Oral Comm*  
     Select ENC 1101 Composition I  
     Select ENC 1102 Composition II  
   - **B. Cultural-Historical Foundations**  
     Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020  
     Select one course from: ARH 2050, 2051; MUL 2010, THE 1020; REL 2300; PHI 2010, LIT 2110; LIT 2120  
   - **C. Mathematical Foundations**  
     Select *MAC 1104 College Algebra or MGF 1203 Finite Math*  
     Select CFS 1060C Intro to Computer Science  
   - **D. Social Foundations**  
     Select *PSY 2013 Gen Psy or SYG 2000 Gen Sociology*  
     Select ECO 2013 Principles of Economics or POS 2041 American National Government.  
   - **E. Science Foundations**  
     Select *PSC 1121 Physical Science*  
     Select *BSC 2010C Biological Principles*  
     *College Preprofessional Requirements.*  
     **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites**  
   - **EDF 2005 Intro to Education**  
   - *EDG 2701 Teaching Diverse Populations*  
   - EME 1040 Intro to Technology  
   *In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the College/University catalog.)

   **PLUS the following General Program Prerequisites:**  
   - BSC 2010C, 2011C with Lab  
   - CHEM 2045, 2046 with Lab  
   - PHY 2053, 2054 with Lab  
   - Electives in Science  

3. Preprofessional Requirements  
   - SPC 1600C Fundamentals of Oral Comm  
   - PSY 2013 Gen Psychology  
   - SYG 2000 General Sociology  
   - MAC 1104 College Algebra  
   * See transfer notes for possible substitutes.

4. Education Core Requirements  
   - EDG 4323 Professional Teaching Practices  
   - EDF 4603 Anal of Critical Issues in Education  
   - EDF 4214 Classroom Learning Principles  

5. Internship I Block  
   - A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.  
   - SCE 4360 Science Instructional Analysis  
   - ESE 3940 Internship I  
   At least 50% of all required biology courses and biology methods courses must be completed before doing Internship I.

6. Specialization Requirements  
   - *PSC 1121 Physical Science*  
   - *BSC 2010C General Biology*  
   - BSC 2011C Biological Div  
   - CHM 2045 Chemistry Fund I  
   - CHM 2046 Chemistry Fund II  
   - CHM 2046U Chemistry Fund Lab  
   - CHM 2205 Intro Organ & Bio  
   - PCB 3063 Genetics  
   - PCB 3063L Genetics Lab  
   - PCB 3046 Ecology  
   - PCB 3043L Ecology Lab  
   - MCB 3020C Microbiology  
   - PCB 3703C Human Physiology or ZOO 3733C Human Anatomy

7. Restricted Electives (w/ advisor's approval) (variable)

8. Internship II (ESE4943)  
   - A student must have completed the portfolio process for Internship II Satisfactorily before student teaching.  
   - At least 80% of all required biology courses and all methods classes must be completed before registering for Internship II

9. Foreign Language Requirements  
   - State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

10. Departmental Exit Requirements:  
    - Achieve a 2.5 GPA in all courses within the major

11. University Minimum Exit Requirements  
    - A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

**Total Semester Hours Required** 120 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.

*Acceptable substitutes:*
While another course may be acceptable, for certification purposes students should take the listed courses.
SCIENCE EDUCATION -
CHEMISTRY: BACHELOR OF SCIENCE

College of Education
Instructional Programs Department, ED346, (407) 823-2939
Coordinator: Dr. Judy Johnson

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a “C” or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student’s major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   Select *SPC 1600C Fundamentals of Oral Comm
   Select ENC 1101 Composition I
   Select ENC 1102 Composition II
   B. Cultural-Historical Foundations
   Select One 2 semester sequence:
   - EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020
   Select one course from:
   - ARH 2050, 2051;
   - MUL 1020, THE 1020; REL 2300;
   - PHI 2100, LIT 2110, LIT 2120
   C. Mathematical Foundations
   Select *MAC 1104 College Algebra
   Select *STA 2014 or *STA2023
   D. Social Foundations
   Select *PSY 2013 Gen Psych or *SYG 2000 Gen Sociology
   Select ECO 2013 Principles of Economics or POS 2041 American National Government.
   E. Science Foundations
   Select *CHM 2045 Chemistry Fund I
   Select *BSC 2010C
   * College Preprofessional Requirements.
   **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education
   *EDG 2701 Teaching Diverse Populations
   EME 1040 Intro to Technology
   *In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

- PLUS the following General Program Prerequisites:
  - BSC 2101C with Lab or
  - PHY 2053/2054 with Lab
  - CHM 2045/2046 with Lab
  Electives in Science

3. Preprofessional Requirements
   * See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSI 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra
   STA 2014 Principles of Statistics or
   STA 2023 Statistical Methods
   * See transfer notes for possible substitutes.

4. Education Core Requirements (9 hrs)
   EDG 4323 Professional Teaching Practices
   EDF 4603 Anal. of Critical Issues in Education
   EDF 4214 Classroom Learning Principles

5. Internship I Block (10 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.
   SGE 4360 Science Instructional Analysis
   ESE 3940 Internship I
   At least 50% of all required chemistry courses must be completed before doing Internship I.

6. Specialization Requirements (34 hrs)
   MAC 1114 College Trig
   *BSC 2101C General Biology
   *CHM 2045 Chemistry Fund I
   CHM 2046 Chemistry Fund II
   CHM 2046L Chemistry Fund Lab
   PHY 2053C College Physics I
   PHY 2054C College Physics II
   CHM 3120C Analytical Chemistry
   CHM 2210 Organic Chem I
   CHM 2211 Organic Chem II
   CHM 2211 Organic Lab Tech I
   CHS 3501 Intro For Science
   BCH 4053 Biochem I

7. Restricted Electives (w/advisor’s approval) (variable)

8. Internship II (ESE4943) (12 hrs)
   A student must have completed the portfolio process for Internship II Satisfactorily before student teaching
   At least 80% of all required chemistry courses and all methods classes must be completed before registering for Internship II.

9. Foreign Language Requirements (0-6 hrs)
   State University System foreign language admission requirement: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

10. Departmental Exit Requirements
    Achieve a 2.5 GPA in all courses within the major
11. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 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.

*Acceptable Substitutes:
While another course may be acceptable, for certification purposes the student should take the listed courses.
SCIENCE EDUCATION - PHYSICS: BACHELOR OF SCIENCE

College of Education
Instructional Programs Department, ED346, (407) 823-2939

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
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- be recommended by the faculty of the department of the student’s major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
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      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
   B. Cultural-Historical Foundations
      Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020
      Select one course from: ARH 2050, 2051; MUL 2010 THE 1020, REL 2300; PHI 2010; LIT 2110; LIT 2120 9 hrs
   C. Mathematical Foundations
      Select *MAC 2311 Calculus w/Analytic Geometry I
      Select CGS 1060C Intro to Computer Science 6 hrs
   D. Social Foundations
      Select *PSY 2013 Gen Psych or *SYG 2000 Gen Sociology
      Select ECO 2013 Principles of Economics or POS 2041 American National Government 6 hrs
   E. Science Foundations
      Select *CHM 2045 Chemistry Fund I 6 hrs
      Select *BSC 2010C
      * College Preprofessional Requirements.
      **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education 3 hrs
   *EDG 2701 Teaching Diverse Populations 3 hrs
   EME 1040 Intro to Technology 3 hrs
   *In addition to EDG2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

PLUS the following General Program Prerequisites:
   BSC 2010C/2011C with Lab or 8 hrs
   CHM 2045/2046 with Lab and 8 hrs
   PHY 2053/2054 with Lab and 8 hrs
   Electives in Science 6 hrs

3. Preprofessional Requirements
   * See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSY 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra
   *See transfer notes for possible substitutes.

4. Education Core Requirements (9 hrs)
   EDF 4323 Professional Teaching Practices 3 hrs
   EDF 4603 Anal. of Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs

5. Internship I Block (10 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.
   SCE 4360 Science Instructional Analysis 4 hrs
   ESE 3940 Internship I 6 hrs
   At least 50% of all required chemistry courses must be completed before doing Internship I.

6. Specialization Requirements (35 hrs)
   *BSC 2010C General Biology
   *CHM 2045 Chemistry Fund I
   CHM 2046 Chemistry Fund II 3 hrs
   CHM 2046L Chemistry Fund Lab 1 hr
   MAC 2311 Calculus w/Analy Geo I 4 hrs
   MAC 2312 Calculus w/Analy Geo II 4 hrs
   MAC 2313 Calculus w/Analy Geo III 4 hrs
   PHY 2053C College Physics I 4 hrs
   PHY 2054C College Physics II 4 hrs
   PHY 2048 Phys Eng & Sci I 3 hrs
   PHY 2048L Phys Lab Eng & Sci I 1 hr
   PHY 2049 Phys Eng & Sci II 3 hrs
   PHY 2049L Phys Eng & Sci II 1 hr
   PHY 3101 Phys for Eng & Sci III 3 hrs
   PHY 3752C Phys of Sci Inst 4 hrs

7. Internship II (ESE 4943) (12 hrs)
   * A student must have completed the portfolio process for Internship II Satisfactorily before student teaching.
   * At least 50% of all required physics classes and all methods classes must be completed before registering for Internship II.

8. Foreign Language Requirements (0-6 hrs)
   State University System foreign language admission requirement:
   2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

9. Departmental Exit Requirements
   Achieve a 2.5 GPA in all courses within the major

10. University Minimum Exit Requirements
    * A 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 semester hours in regular courses completed at UCF
    * Complete the General Education Program, the Gordon Rule, the
CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 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.

*Acceptable Substitutes:
While another course may be acceptable, for certification purposes the student should take the listed courses.
SOCIAL SCIENCES: BACHELOR OF SCIENCE

College of Arts and Sciences
Interdisciplinary program
Ms. J. Boyte, FA 208(407) 823-2492

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 degree Bachelor of Science with a major in Social Sciences.

Admission Requirements
None

Degree Requirements
- 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 1104 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 2013 or SYG 2000, depending on concentration to be followed 3 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (6 hrs)
   Select 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 Meth of Political Sci 3 hrs
   PSY 3214 Research Methods in Psychology 3 hrs
   SYA 3300 Research Methods (Sociology) 3 hrs

4. Restricted Electives (60 hrs)
   Select a minimum of 15 semester hours in each of four Social Science disciplines.
   Communication
   COM 3311 Comm as a Behavioral Science 3 hrs
   Select one course
   RTV 4403 Radio, Television and Society 3 hrs
   JOU 3003 History of American Journalism 3 hrs
   Select three more Communication courses 9 hrs
   Economics
   *ECO 2013 Principles of Economics I 3 hrs
   *ECO 2023 Principles of Economics II 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 2013 General Psychology 3 hrs
   PEP 3003 Personality Theory 3 hrs
   Select three more Psychology courses 9 hrs
   Public Service Administration

5. Departmental Exit Requirements
   - Maintain a minimum GPA in each area of 2.0
   - Computer Competency met by CGS 1060

6. Foreign Language Requirements (0-8 hrs)
   Admission: 2 years high school, or 1 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 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 Service Administration, Sociology

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 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: BACHELOR OF SCIENCE

College of Education
Instructional Programs Department, ED346, (407) 823-2939
Coordinator: Dr. Jeff Cornett

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorial component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student's major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select *SPC 1600C Fundamentals of Oral Comm 9 hrs
      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
   B. Cultural-Historical Foundations
      Select One 2 semester sequence: *EUH 2000, EUH 2001 or *AMH 2010, AMH 2020
      Select one course from: ARH 2050, 2051; MUL 2010, THE 1020; REL 2300; PHI 2010; LIT 2110; LIT 2120
   C. Mathematical Foundations
      Select *MAC 1104 College Algebra or MGF 1203 Finite Math 6 hrs
      Select CGS 1060C Intro to Computer Science
   D. Social Foundations
      Select *PSY 2013 Gen Psych 6 hrs
      Select *ECO 2013 Principles of Economics or PCL 2041 American National Government
   E. Science Foundations
      Select PSC 1121 Physical Science
      Select BSC 1020 Biological Principles
      * College Preprofessional Requirements.
      At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.
      **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education 3 hrs
   *EDG 2701 Teaching Diverse Populations 3 hrs
   EME 1040 Intro to Technology 3 hrs
   *In addition to EDG2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

   PLUS the following courses are required for admission to the upper division major:
   PCL 2041 American Government 3 hrs and
   (choose 4 of the 6 areas for a total of 12 hours)
   ANT 2003 Anthropology 3 hrs
   *PSY 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra or
   MGF 1203 Finite Math
   * See transfer notes for possible substitutes.

3. Preprofessional Requirements
   * See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSY 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra or
   MGF 1203 Finite Math

4. Education Core Requirements (9 hrs)
   EDF 4603 Anal. of Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs

5. Internship I Block (10 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.
   SSE 4361 Science Instructional Analysis 4 hrs
   ESE 3940 Internship I 6 hrs
   At least 50% of all required social science courses must be completed before doing Internship I. SSE 4361 must be completed at the same time as Internship I.

6. Specialization Requirements (39 hrs)
   EUI 2000 Western Civ I GEP
   EUI 2001 Western Civ II GEP
   AMH 2010 US Hist 1492-1877 3 hrs
   AMH 2020 US Hist 1877 - Present 3 hrs
   ECO 2013 Principles of Econ I GEP
   ECO 2023 Principles of Econ II 3 hrs
   GEO 3370 Resources Geography 3 hrs
   GEO 3470 World Political Geography 3 hrs
   PCL 2041 American National Government 3 hrs
   PSY 2013 General Psychology GEP
   SYG 2000 General Sociology 3 hrs
   Non-American History Electives 3 hrs
   Political Science Electives 6 hrs
   American History Electives 9 hrs

7. Electives (w/advisor's approval) (variable)

8. Internship II (ESE 4943) (12 hrs)
   A student must have completed the portfolio process for Internship II Satisfactorily before student teaching
   * At least 80% of all social science courses and the methods class must be completed before registering for Internship II.

9. Foreign Language Requirements (0-6 hrs)
   State University System foreign language admission requirement:
   2 years in high school or 1 year of college instruction in a single
foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

10. **Departmental Exit Requirements**
Achieve a 2.5 GPA in all courses within the major

11. **University Minimum Exit Requirements**
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

**Total Semester Hours Required** 120 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.

*Acceptable Substitutes:
While another course may be acceptable, for certification purposes the student should take the listed courses.
SOCIAL WORK: BACHELOR OF SOCIAL WORK

College of Health and Public Affairs
TR 542, (407) 823-2114
Director: Ira Colby Program Coordinator: Edward Suh

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 term. To be considered for admission to the program, students must have:

- a 2.0 overall GPA
- an AA (from a Florida State Community College) or UCF General Education Program
- 15 semester hours common program prerequisites (see Section 2 below for list of courses)
- passed all sections of CLAST

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 and college-level reading and writing skills. Deadline for application for the fall term is June 1, and deadline for application for the summer term is February 1. UCF application must also be submitted by the program deadline.

Degree Requirements

- 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, UCF Foreign Language Admission and the Common Program Prerequisite Requirements before transferring to UCF
- 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
- Students must earn a minimum grade of "C" in major courses
- Students must have a minimum overall GPA of 2.5 for entry into field education (SOW 4510) and graduation in the major Social Work Program
- Students must complete all the requirements listed in 1-11 below

1. UCF General Education Program (36 hrs)
   - Communication Foundations 9 hrs
   - Cultural Historical Foundations 9 hrs
   - Mathematical Foundations 6 hrs
     Select CGS 1060C
   - Social Foundations 12 hrs
     Select ECO 2013, PSY 2013, SYG 2000 and POS 2041
   - Science Foundations 6 hrs
     Select BSC 1020

2. Common Program Prerequisites* (0 hrs)
   - POS 2041 American Government GEP
   - BSC 1020 Biology GEP
   - ECO 2013 Economics GEP
   - PSY 2013 Psychology GEP
   - SYG 2000 Sociology GEP

3. CLAST

4. 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 Minors 3 hrs
   - SOW 4431 Evaluating Social Work Practice and Service Programs 3 hrs
   - SOW 4232 Social Welfare Policies and Issues 3 hrs
   - SOW 4341 Macro-level Roles and Interventions in Social Work 3 hrs
   - SOW 4343 Micro-level Roles and Interventions in Social Work 3 hrs
   - SOW 4510 Field Education 9 hrs
   - SOW 4522 Field Education Seminar 3 hrs

5. Required Social Work Elective 3 hrs

6. Required Computer Science Elective GEP (variable)

7. Electives (variable)

8. Foreign Language Requirements (0-8 hrs)

   Admissions: Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

   Graduation: None

9. Foreign Culture or Cultural Diversity Requirement

   Choose two of the following courses: ANT 3322, ANT 3360, ANT 3363, ANT 2410, ANT 3610, ASH 4404, ASH 4442, COP 4303, HUM 3401, HUM 3417, HUM 3418, JST 3401, JST 3402, JST 3820, LAH 3130, LAH 3200, LAH 3400, LAH 3470, REL 3600, AMH 3561, AMH 3571, AMH 3586, ANT 3302, ANT 3311, ANT 3313, SOP 3724, SOP 3742, SPA 3333, SPA 4380, SPA 4381, SPA 4382, SYD 3700, SPN, FRE, GER, ITA, RUS, POL, SPW, FRW, GEW, JAP, HBR or see advisor.

10. Departmental Exit Requirements (120 hrs)

    A minimum overall GPA of 2.5 with at least a grade of "C" or higher in each social work course.

11. University Minimum Exit Requirements

    - A GPA (2.0) in all work attempted (both UCF and elsewhere)
    - 60 semester hours earned after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 semester hours in regular courses completed at UCF
    - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
    - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Related Programs: Criminal Justice, Psychology, Public Administration, Sociology.

Gerontology Certificate: 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 Gerontology. The program may be completed with the undergraduate major of the student and is administered by the
School of Social Work. 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 music, music education, physical education, or art education may also find the program valuable.

To receive the Certificate in Gerontology, the students must successfully complete the following courses:

- DEP 3464 Psychology of Aging 3 hrs
- HSC 4564 Health Care Needs of the Elderly 3 hrs
- SYP 4730 Sociology of Aging 3 hrs
- SOW 4645 Social Services for the Elderly 3 hrs
- XXXX Internship (see gerontology coordinator) 3 hrs

Related Minors: Psychology, Sociology

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
- Computer Science

Four Year Plan of Study

Freshman Year*

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<td>or AMH 2010</td>
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<td>EUH 2001 or HUM 2230</td>
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<td>MGF 1203 or MAC 1104</td>
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*Plan your required 9 summer hours into your course of study

Sophomore Year

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<td>CHM 1020 or PSC 1512</td>
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Junior Year

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Senior Year

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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

- 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 an overall GPA of at least 2.0 in all courses used for 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
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
      Select MAC 1104 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 SYG 2000 General Sociology 3 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites None

3. Core requirements (21 hrs)
   SYA 3300 Research Methods 4 hrs
   SYA 3400 Research Methods and Stat 4 hrs
   SYA 4450 Data Analysis 4 hrs
   SYG 2000 General Sociology 3 hrs
   Select one course
      SYA 3110 Development of Social Thought 3 hrs
      SYA 3120 Modern Sociological Thought 3 hrs
   Select one course
      SYP 3530 Social Stratification 3 hrs
      SYP 4000 Sociological Social Psychology 3 hrs

4. Restricted Electives (24 hrs)
   Select eight courses from the following
   SYA 4650 Applied Sociology
   SYA 5625 Proseminar
   SYA 5937 Advanced Population
   SYD 3410 Urban Sociology
   SYD 3700 Race & Ethnic Minorities in 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 3452 Sociology of Murder
   SYP 3510 Sociology of Deviant Behavior
   SYP 3520 Criminology
   SYP 3530 Juvenile Delinquency
   SYP 3540 Sociology of Law
   SYP 3551 Sociology of Alcoholism
   SYP 3602 Sociology of Popular Music
   SYP 3650 Sociology and Sport
   SYP 3930 Sociology of Popular Culture
   SYP 4550 Sociology of Drug Abuse
   SYP 4453 Criminal Victimization in Society
   SYP 4455 Gangs and Society
   SYP 4730 Sociology of Aging
   SYP 4734 Minority Aging
   SYP 4810 Women in Contemporary Society
   SYP 5526 Sociological Criminology
   SYP 5967 Reactions to Domestic Violence

    - Eligible students may enroll for 3 to 16 semester hours of internship. 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
   - 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Anthropology, Criminal Justice

Related Minors: Anthropology, Anthropology in Multicultural Studies, Criminal Justice, Sociology

Transfer notes:
   - "D" grades from other institutions do not meet departmental 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:**
It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYF, SYL, or SYP.
SPANISH: BACHELOR OF ARTS

College of Arts and Sciences
Department of Foreign Languages & Literatures, FA 523
E-Mail: foreignlanguage@ucf.edu
Dr. J. B. Fernández, (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 or students who have received advanced education abroad must substitute select classes.

Degree Requirements
- 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" 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.
- 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
      Select MAC 1104 College Algebra or MGF 1103 Finite Mathematics 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 (0-14 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 (12 hrs)
   SPN 3420* Composition 3 hrs
   SPN 3760* Adv Spanish Oral Comm 3 hrs
   SPW 3100 & 3101 Survey of Spanish Literature or 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 (24 hrs)
   Select two of the following:
   FOL 3730 Romance Philology
   SPN 4801 Spanish Morphosyntax
   SPN 4800 Spanish American Syntax
   SPN 4780 Spanish Phonetics
   Spanish literature beyond the survey level (taught in Spanish) 6 hrs

5. Departmental Exit Requirements
   - Earn a grade of "C" or higher in at least 36 hours of upper division Spanish courses
   - Students are required to take 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 "C" GPA (2.0) in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 semester hours in regular courses completed at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 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:
- "D" grades from other institutions do not meet departmental 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 by the department chair for equivalency credit. The student must provide all supporting information.
STATISTICS: BACHELOR OF SCIENCE

College of Arts and Sciences
Department of Statistics, CC II 212, (407) 823-5562
E-mail: statistics@ucf.edu
Dr. D. Nickerson, (407) 823-5528

Admission Requirements

None

Degree Requirements

- 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" in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics 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
     - Select MAC 2311 Calculus I 4 hrs
     - Select STA 2023 Statistical Methods I 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations
     - 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 2500* Computer Science I 3 hrs
   - MAC 2311 Calculus I GEP
   - MAC 2312 Calculus II GEP
   - 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 4163 Statistical Methods II 3 hrs
   - STA 4164 Statistical Methods III 3 hrs
   - STA 4321 Statistical Theory I 3 hrs
   - STA 4322 Statistical Theory II 3 hrs
   - COP 4500 Numerical Calculus 3 hrs
   - MAC 2313 Calculus with Analytic Geo III 4 hrs
   - ENC 3241 Technical Report Writing 3 hrs
   - Select one course
     - MAS 3106 Linear Algebra 4 hrs
     - MAS 3105 Elementary Linear and Matrix Algebra 3 hrs
     - Select one course
       - COT 3100 Introduction to Discrete Structure 3 hrs
     - MHP 2300 Logic and Proof in Mathematics 3 hrs
   - Complete three credits
     - CGS 3422 Programming & Numerical Methods 3 hrs
     - COP 2210C, 2211C, & 2212C Pascal I, II, & III 3 hrs
     - COP 2220C, 2221C, & 2222C C Programming I, II, & III 3 hrs
   - Select three from among the following five: 9 hrs
     - STA 3096 Statistical Graphics

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 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" or better in each STA course.
   - Computer Competency met by STA 4102

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Two (2) years of one foreign language in high school, or one (1) 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 "C" GPA (2.0) in all work attempted (both UCF and overall).
   - 60 semester hours earned after CLEP awarded.
   - 48 semester hours of upper division credit completed.
   - 30 semester hours in regular courses completed at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Math, Math education

Related Minors: Statistics, Math

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- COP 2500C*: any COP programming language course. However, COP 2500C 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.
THEATRE: BACHELOR OF ARTS

College of Arts and Sciences
Department of Theatre, THE 120 (407) 823-2861
E-mail: theatre@ucf.edu
Dr. 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 wishing to become majors via an interview, audition and portfolio review. For complete information, contact the Department of Theatre.

Degree Requirements
- Students must maintain a minimum "C" (2.00) overall Theatre GPA to continue in the 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 three main-stage productions during both the 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.
- 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 1600C 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 1020 Theatre Survey 3 hrs
   C. Mathematical Foundations
      Select a listed Math course 3 hrs
      Prefer CGS 1060C Intro to Computer Sci or CGS 3000 Computer Fund for Business 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (15 hrs)
   THE 1020* Theatre Survey 3 hrs
   THE 3305* Survey of Dramatic Literature I 3 hrs
   THE 3090* Theatre Production/Perform 1 hr
   TPA 2290* Theatre Production/Perform I 1 hr
   TPA 2210* Stagecraft I 3 hrs
   TPP 2100* Theatre Production/Perform I 1 hr
   TPP 2100* Acting I 3 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (19 hrs)
   THE 3110 Theatre History I 3 hrs
   THE 3111 Theatre History II 3 hrs
   THE 3303 Play Analysis 3 hrs

   THE 3306 Survey of Dramatic Literature II 3 hrs
   TPP 3310C Directing I 3 hrs
   THE 4093 Theatre Production/Perf IV 1 hr
   THE 4095 Theatre Production/Perf V 1 hr
   THE 4096 Theatre Production/Perf VI 1 hr
   THE 4097 Theatre Production/Perf VII 1 hr

4. Restricted Electives (12 hrs)
   Select 12 hours from the following
   THE 3230 Theatre Cultural Diversity 3 hrs
   THE 3343 Musical Theatre Survey 3 hrs
   THE 4307 Contemporary Theatre Practice 3 hrs
   THE 4XXX Drama of Tennessee Williams 3 hrs
   TPA 3197 Summer Theatre Design 3 hrs
   TPA 3295 Theatre Studio/Tech/Design 3 hrs
   TPA 3601 Stage Management 3 hrs
   TPA 4400 Theatre Management 3 hrs
   TPP 3197 Summer Theatre/Performance 3 hrs
   TPP 3XXX Studio Performance 3 hrs

5. Departmental Exit Requirements
- Earn a grade of "C" 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 "C" GPA (2.0) in all work attempted (both UCF and overall).
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Theatre BFA, Film & Animation, Music

Related Minors: Theatre, Music

Transfer notes:
- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:
- THE 1020*: may use any introductory course.
- THE 3305*: may use THE 2300
- THE 3090*: may use THE 2925
- TPA 2290*: may use TPA 1290
- TPP 2100*: may use TPP 1190
- TPP 2100*: may use TPP 2210
THEATRE: BACHELOR OF FINE ARTS

College of Arts and Sciences
Department of Theatre, THE 120 (407) 823-2861
E-mail: theatre@ucf.edu
Mr. 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 theatre upon graduation, plan to pursue a specialized career in professional theatre. The BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within 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 wishing 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, three minute monologues of contrasting styles.
- 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, plus three letters of recommendation and transcripts of previous college work at the time of interview.

Degree Requirements
- Students must maintain a minimum "B" (3.00) overall Theatre GPA to continue in the major.
- Theatre grades of less than "C" will not be counted.
- Continuation in the BFA program requires a positive annual evaluation.
- 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 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
      Select SPC 1600C Fund Oral Communication 3 hrs
      Select two semesters of English Composition 6 hrs
   B. Cultural and Historical Foundations
      Select one 2 semester sequence
      Select THE 1020 Theatre Survey 3 hrs
   C. Mathematical Foundations
      Select a listed Math course 3 hrs
      Prefer CGS 1060C Intro to Computer Sci or
      CGS 3000 Computer Fund for Business 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (15 hrs)
   THE 1020* Theatre Survey 3 hrs
   THE 3305* Survey of Dramatic Literature I 3 hrs
   THE 3090* Theatre Production/Performance I 1 hr
   TPA 2290* Theatre Production/Performance I 1 hr
   TPA 2210* Stagecraft I 3 hrs
   TPA 2190* Theatre Production/Performance I 1 hr
   TPA 2100* Acting I 3 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements (all tracks) (18 hrs)
   TPA 2211 Stagecraft II 3 hrs
   THE 3303 Play Analysis 3 hrs
   THE 3306 Dramatic Literature II 3 hrs
   THE 3110 Theatre History I 3 hrs
   THE 3111 Theatre History II 3 hrs
   TPA 3310C Directing I 3 hrs

4. Specialization: select one area (60 hrs)
   Performance Specialization
   TPA 2170C Acting II - Fundamentals 3 hrs
   TPA 2510 Stage Movement I 2 hrs
   TPA 2710 Voice Production I 2 hrs
   TPA 3172C Acting III - Characterization 3 hrs
   TPA 4193 Thea. Prod./Perf. IV 1 hr
   TPA 4195 Thea. Prod./Perf. V 1 hr
   TPA 3511 Stage Movement II 2 hrs
   TPA 3512 Stage Movement III 2 hrs
   TPA 3XXX Music Thea. Voice I 2 hrs
   TPA 3711 Voice Production II 2 hrs
   TPA 3712 Voice Production III 2 hrs
   TPA 3730 Voice Production IV 2 hrs
   TPA 4140C Acting IV - Verse 3 hrs
   TPA 4142C Acting V - Studio 3 hrs
   TPA 4198 Thea. Prod./Perf. VI 1 hr
   TPA 4265 Acting for TV/Film 3 hrs
   TPA 4531 Stage Movement IV 2 hrs
   TPA 4940 Perf. Thea. Internship 6 hrs
   TPA 2248 Makeup Techniques 2 hrs
   TPA 3223 Theatre Careers 3 hrs
   DAA 2000 Theatre Dance 3 hrs
   Restricted electives (see list of courses) 10 hrs

Stage Management Specialization
   SPC 3425 Group Interaction & Decision Making 3 hrs
   TPA 3XXX Advanced Stage Management 3 hrs
TPA 4400 Theatre Management 3 hrs
TPP 2170 Acting II - Fundamentals 3 hrs
TPA 3220 Stage Lighting 3 hrs
TPA 2248 Makeup Techniques 2 hrs
TPA 3060 Scene Design I 3 hrs
TPA 3XXX Stagecraft III 3 hrs
TPA 2208 Theatre Drafting 2 hrs
TPA 3221 Lighting Design 3 hrs
TPA 4294 Thea. Prod./Perf. IV 1 hr
TPA 4295 Thea. Prod./Perf. V 1 hr
TPA 3601 Stage Management 2 hrs
TPA 3xx Sound Design 3 hrs
TPA 4940 Design/Tech Internship 6 hrs
TPP 3223 Theatre Careers 3 hrs
ART 2201C Design Fundamentals I 3 hrs
or
ART 2300C Drawing Fundamentals I 3 hrs

**Design/Tech Specialization**

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<th>Hrs</th>
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<td>TPA 4049</td>
<td>Costume Design</td>
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<td>TPA 3043</td>
<td>Costume History</td>
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<td>TPA 3060</td>
<td>Scene Design I</td>
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<td>TPA 3061</td>
<td>Scene Design II</td>
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<td>TPA 3077</td>
<td>Scene Painting</td>
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<td>TPA 3XXX</td>
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<td>TPA 3230</td>
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<td>TPA 3250</td>
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**5. Restricted Electives**

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<tr>
<td>THE 3230</td>
<td>Thea. Cultural Diversity</td>
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<td>THE 3243</td>
<td>Musical Theatre Survey</td>
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<tr>
<td>THE 4307</td>
<td>Contemporary, Thea. Prac.</td>
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<tr>
<td>THE 4XXX</td>
<td>Drama of Tenn. Williams</td>
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<td>TPA 3197</td>
<td>Summer Thea. Design</td>
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<td>TPA 3295</td>
<td>Theatre Studio / Design</td>
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<td>Stage Management</td>
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<tr>
<td>TPP 3198</td>
<td>Theatre Studio / Perform.</td>
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</tr>
</tbody>
</table>

**6. Departmental Exit Requirements**

- Earn a grade of "C" or better in each Theatre course
- Take a Departmental Exit Examination
- Computer Competency met by Computer Science courses

**7. Foreign Language Requirements**

**Admission:** Two (2) years of one foreign language in high school, or one (1) year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

**8. Electives**

**9. University Minimum Exit Requirements**

- A "C" GPA (2.0) in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 32 semester hours in regular courses completed at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

**Total Semester Hours Required** 129 hours

**Related Programs:** Theatre BA, Film & Animation, Music

**Related Minors:** Theatre, Music

**Transfer notes:**

- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:

- THE 1020*: may use any introductory course
- THE 3305*: may use THE 2300
- THE 3090*: may use THE 2925
- TPA 2290*: may use TPA 1290
- TPP 2190*: may use TPP 1190
- TPP 2100*: may use TPP 2210

**Restricted Electives (see specializations)**

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**Total Semester Hours Required** 129 hours

**Related Programs:** Theatre BA, Film & Animation, Music

**Related Minors:** Theatre, Music

**Transfer notes:**

- "D" grades from other institutions do not meet departmental 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 common program prerequisites if taken prior to transferring to UCF:

- THE 1020*: may use any introductory course
- THE 3305*: may use THE 2300
- THE 3090*: may use THE 2925
- TPA 2290*: may use TPA 1290
- TPP 2190*: may use TPP 1190
- TPP 2100*: may use TPP 2210

**Restricted Electives (see specializations)**

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<td>THE 4307</td>
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<td>THE 4XXX</td>
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<td>TPA 4400</td>
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<td>TPP 3198</td>
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VOCATIONAL EDUCATION AND INDUSTRY TRAINING - BUSINESS: BACHELOR OF SCIENCE

College of Education
Instruction Programs Department, ED346, (407) 823-2939
Coordinator: Dr. Barry Siebert

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- achieve a "C" or better grade in EDG 4323, Professional Teaching Practices, including successful completion of the tutorials component or equivalent
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student’s major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select *SPC 1600 Fundamentals of Oral Comm
      Select ENC 1101 Composition I
      Select ENC 1102 Composition II
   B. Cultural-Historical Foundations
      Select One 2 semester sequence: EUH 2000, EUH 2001 or HUM 2211, HUM 2230 or AMH 2010, AMH 2020
      Select one course from: ARH 2050, 2051; MUL 2010, THE 1020; REL 2300; PHI 2010; LIT 2110; LIT 2120
   C. Mathematical Foundations
      Select *MAC 1104 College Algebra or *MGF 1203 Finite Math
      Select CGS 1060 Intro to Comp Sci or STA 2014 Princ Stat
   D. Social Foundations
      Select *ECO 2013 Prin of Econ I or *ECO 2023 Prin of Econ II
      Select *PSY 2013 Gen Psychology or *SYG 2000 Gen Sociology
   E. Science Foundations
      Select PSC 1121 Physical Science
      Select BSC 1020 Biological Principles
      * College Preprofessional Requirements.
      At least one course taken to meet the natural science requirements in General Education and/or Prerequisites must include a laboratory component.
      **The courses listed in Section 1 should be taken as prerequisites to the Education courses which are listed below.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education 3 hrs

*EDG 2701 Teaching Diverse Populations 3 hrs
EME 1040 Intro to Technology 3 hrs
*In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)

PLUS the following General Program Prerequisites:
*ACG 2021 3 hrs
*ACG 2071 3 hrs
ECO 2013 3 hrs
ECO 2023 3 hrs
*15 hours to be in area of occupational specialization
*See transfer notes for possible substitutes.

3. Preprofessional Requirements
   * See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSY 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra or
   MGF 1203 Finite Math

4. Education Core Requirements (21 hrs)
   EDG 4323 Professional Teaching Practices 3 hrs
   EDF 4603 Anal of Critical Issues in Education 3 hrs
   EDT 4214 Classroom Learning Principles 3 hrs
   EVT 3502 Spec Needs Voc Stdt 4 hrs
   ETV 4065 Prin/Prac Voc Educ 4 hrs
   BTE 4410 Course Const Business Ed 4 hrs

5. Internship I (ESE3940) (6 hrs)
   A student must have completed the portfolio process for Internship I Satisfactorily before student teaching.

6. Specialization Requirements (30 hrs)
   OST 1335 Business Commun 3 hrs
   OST 1110 Interm Typewriting 3 hrs
   OST 2120 Adv Typewriting 3 hrs
   OST 2766 WordPerfect 3 hrs
   ACG 2021 Prin Fina Accounting 3 hrs
   ACG 2071 Prin of Managerial Acct 3 hrs
   ECO 2013 Prin of Econ I GEP
   ECO 2023 Prin of Econ II 3 hrs
   BUL 3130 Legal Envir Business 3 hrs
   Tech Elective (w/advisor’s approval) 3 hrs
   Elective in Business Administration 3 hrs

7. Electives (w/advisor’s approval) (variable)

8. Internship II (ESE4943) (12 hrs)
   A student must have completed the portfolio process for Internship II Satisfactorily before student teaching.

9. Foreign Language Requirements (0-6 hrs)
   State University System foreign language admission requirements: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school)

10. Departmental Exit Requirements
    Achieve a 2.5 GPA in all courses within the major

11. University Minimum Exit Requirements
A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required: 120 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.

*Acceptable Substitutes:
While another course may be acceptable, for certification purposes the student should take the listed courses.
ACG X001 and X011 will substitute for ACG 2021 at UCF.
ACG 2071 is the preferred elective in Business Administration; however, any Business Administration elective is acceptable.
VOCATIONAL EDUCATION AND INDUSTRY TRAINING - HEALTH OCCUPATIONS AND INDUSTRIAL/TECHNICAL: BACHELOR OF SCIENCE - TRACK

College of Education
Instruction Programs Department, ED346, (407) 823-2939
Coordinator: Dr. Larry Hudson

Admission Requirements
- have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- have on file in the University Admissions Office a score at or above the 40th percentile on the SAT (950) or ACT (20 enhanced)
- present an overall GPA of 2.5
- complete a formal application for admission to a particular teacher education program
- be recommended by the faculty of the department of the student’s major
- 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 usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select *SPC 1600C Fundamentals of Oral Comm or
      Select ENC 1101 Composition I or
      Select ENC 1102 Composition II
      9 hrs

   B. Cultural-Historical Foundations
      Select One 2-semester sequence: EUH 2000, EUH 2001 or HUM 2211 or HUM 2230 or AMH 2010 or AMH 2020
      Select one course from: ARH 2050, 2051; MUL 2010, THE 1020, REL 2300; PHI 2120; LIT 2110; LIT 2120
      9 hrs

   C. Mathematical Foundations
      Select *MAC 1104 College Algebra or
      Select *MGF 1203 Finite Math
      Select CGS 1060C Intro to Computer Science or STA 2014 Principles of Statistics
      6 hrs

   D. Social Foundations
      Select ECO 2013 Principles of Economics I or
      Select ECO 2023 Principles of Economics II or
      Select POS 2041 American National Government
      Select *PSY 2013 Gen Psych or *SYG 2000 Gen Sociology
      6 hrs

   E. Science Foundations
      Select PSC 1121 Physical Science or
      Select PHY 2033 College Physics or
      Select CHM 1020 Concepts in Chemistry
      Select BSC 1020 Biological Principles or
      Select BSC 1030 Biology & Environment or
      Select BOT 1000 Plant Science or
      Select GLY 1030 Geo & Its Applications or
      Select GEO 1200 Physical Geo or
      Select ANT 3511 Human Species
      6 hrs
- College Preprofessional Requirements.

2. Common Program Prerequisites** (9 hrs)
   EDF 2005 Intro to Education
   *EDG 2701 Teaching Diverse Populations
   EME 1040 Intro to Technology
   *In addition to EDG 2701, students must take 6 additional hours with an international or diversity focus. The eligible courses will be determined by the institution in which the student is enrolled for their lower division course work. (These courses must be identified in the college/university catalog.)
   - 15 hrs to be in area of occupational specialization.

3. Preprofessional Requirements
   - See General Education Program
   SPC 1600C Fundamentals of Oral Comm
   PSY 2013 Gen Psychology or
   SYG 2000 General Sociology
   MAC 1104 College Algebra or
   MGF 1203 Finite Math

4. Area of Emphasis (6 hrs)
   Middle/High School Teaching:
   EDF 4603 Anal of Critical Issues in Education
   EDF 4214 Classroom Learning Principles
   or
   Adult Teaching/Training:
   EVT 4169 Curr Dev for Ind Training
   ADE 4382 Teaching Adult Learners

5. Specialization Requirements (24 hrs)
   EVT 3365 Gen Method/Test Eval
   EVT 3062 Professional Role Voc Ed Teacher
   EVT 3312 Cou Cont Health Occupations or
   EVT 3371 Cou Cont Industrial Ed
   EVT 3502 Special Need Voc Ed
   EVT 4065 Prin/Prac Voc Ed
   EVT 4368 Adv Tch/Tech Voc Ed
   EVT 3367 Eval Vocation Instruction

6. Upper Division Electives (9 hrs)
   (with advisor’s approval)

7. Specialization
   Students must complete an area of specialization (occupational expertise) through one of the following routes:
   - occupation-specific courses
   - recognized occupational license/registration
   - occupational examination, or
   - 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. Specialization must be completed before taking Directed Field Experience.

8. Directed Field Experience (EVT4941) (12 hrs)

9. Foreign Language Requirements (0-6 hrs)
   State University System foreign language admission requirements: 2 years in high school or 1 year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required 2 units of foreign language in high school.)
10. Departmental Exit Requirements
Achieve a 2.5 GPA in all courses within the major

11. University Minimum Exit Requirements
- A 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 semester hours in regular courses completed at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and 9 hours of Summer credit (if applicable)

Total Semester Hours Required 126 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.
Minors in a limited number of programs have been authorized for certification with baccalaureate degrees. Minors must be indicated on the Intent To Graduate card and 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.

If you plan to graduate with a minor, have that minor added to your audit during the Early Registration period. Contact the undergraduate records office of the college offering the minor for more information. All graduation requirements must be from a single UCF catalog for which a student is eligible. Minors offered are:

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AEROSPACE STUDIES: Minor
College of Engineering
Department of Aerospace Studies, EN 281
LTC Lee Glaser, (407) 823-1247

Credit Hour Requirements 16 hours
Required Courses (16 hr)
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 Mngmnt I 3 hrs
AFR 3230 Air Force Evaluation and Mngmnt II 3 hrs
AFR 4201 Nat Sertity Forces in Cont Am Soc I 3 hrs
AFR 4210 Nat Sertity Forces in Cont An Soc II 3 hrs

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

AFRICAN-AMERICAN STUDIES:
Minor
College of Arts and Sciences
African American Studies Program, HFA 201
Dr. Gladstone Yearwood, (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 3XXX The African American Experience 3 hrs
AMH 3571 Black American History I 3 hrs
Restricted Electives (12 hrs)
AFA 3XXX Study Abroad in the Caribbean 3 hrs
AML 3614 Topics in African-American Literature 3 hrs
ARH 3520 African Art 3 hrs
ARH 3522H Honors: African American Arts Seminar 3 hrs
ARH 5933 Seminar in African and African-American Arts 3 hrs
INR 3253 International Politics of Africa 3 hrs
FIL 3XXX Black Cinema 3 hrs
LAH 3470 History of the Caribbean 3 hrs
MUL 2016 Evolution of Jazz 3 hrs
PUP 3314 Minorities in American Politics 3 hrs
SOP 3724 The Psychology of Racial Prejudice 3 hrs
SYD 3700 Race and Ethnic Minorities in the United States 3 hrs
THE 3230 Cultural Diversity via Theater 3 hrs

Additional courses may be used only with the prior permission of the program Director.

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

AMERICAN STUDIES: Minor
College of Arts and Sciences
Dean's Office, CAS 190
Dr. Shirley Leckie, (407) 823-2573

Credit Hour Requirements 21 hours
Required Courses (9 hrs)
At least three hours from each of these three fields
- literature and humanities
- social sciences
- history

Restricted Electives (12 hrs)
Courses chosen from the list of approved courses (available from the American Studies advisor).

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

ANTHROPOLOGY: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, FA 405
anthropology@ucf.edu
Dr. Jay Corzine, (407) 823-2227

The Anthropology minor develops a more sophisticated understanding of the human condition. The minor is especially appropriate for all UCF undergraduates.

Credit Hour Requirements 21 hours
Required Courses (12 hrs)
ANT 2511 The Human Species 3 hrs
ANT 2211 Archaeol & Rise of Human Culture 3 hrs
ANT 2410 Cultural Anthropology 3 hrs
ANT 3422 Peoples of the World 3 hrs

Restricted Electives (3 hrs)
2000-4000 level Anthropology courses

Restricted Upper Division Electives (6 hrs)
3000-4000 level Anthropology courses

Other Requirements
- A minimum grade of "C" is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within
the department

* * * * * * *

ANTHROPOLOGY IN
MULTICULTURAL STUDIES: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, FA 405
anthropology@ucf.edu
Dr. 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
Select one course
ANT 2003 General Anthropology
ANT 2410 Cultural Anthropology

Restricted Electives
Select from the following:
ANT 3422 Peoples of the World
ANT 3311 Ethnology of North Amer Indians
ANT 3332 People and Cultures of Latin Amer
ANT 3360 Peoples of the Far East
ANT 3241 Magic, Ritual, and Belief
ANT 3302 Sex, Gender and Culture
SYD 3700 Race and Ethnic Minorities in the US

Substitutions require consent of the department chair.

Other Requirements
- A minimum grade of "C" is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.

* * * * * * *

ART HISTORY: Minor
College of Arts and Sciences
Art Department, VAB 117
art@ucf.edu
Mr. Charles Wellman, (407) 823-2676

Credit Hour Requirements
27 hours

Required Courses
Select from the following:

ARH 2050 The History of Art I
ARH 2051 The History of Art II
ARH 4310 Early Italian Renaissance Art
ARH 4430 19th Century Art
ARH 4450 20th Century Art

Non-western Course Requirement
(3 hrs)

* * * * * * *

ART-STUDIO: Minor
College of Arts and Sciences
Art Department, VAB 117
art@ucf.edu
Mr. Charles Wellman, (407) 823-2676

Credit Hour Requirements
24 hours

Required Courses
Select from the following:

ARH 3530 Asian Art
ARH 4545 Art of India
ARH 3520 African Art
ARH 4655 Meso American Art

Restricted Elective
(3 hrs)

ARH 4350 Baroque Art
ARH 4969 Women in Art
ARH 4498 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)

Any ARH 3XXX-4XXX courses

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 6 of the required hours must be regularly scheduled 3000-4000 level courses in an area of specialization and taken at UCF.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

* * * * * * *

ASIAN STUDIES: Minor
College of Arts and Sciences
Department of Philosophy, FA 411
philosophy@ucf.edu
Dr. Daniel White, (407) 823-5076
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
Required Course 24 hours
Select one course
ANT 3360 Peoples of the Far East
HUM 3401 Asian Humanities

Restricted Electives
Approved courses (see department for listing) (21 hrs)

Foreign Language Requirement
One year or the equivalent proficiency examination. Students taking foreign language classes must complete at least six hours in the sequence chosen (e.g. Chinese, Japanese).

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

BIOLOGY: Minor
College of Arts and Sciences
Department of Biology, BL 210
biology@ucf.edu
http://pegasus.cc.ucf.edu/~biology/
Dr. Walter Taylor, (407) 823-2141

Credit Hour Requirements
Required Courses 28 hours
(21 hrs)
BSC 2010C General Biology 4 hrs
BSC 2011C Biological Diversity 4 hrs
PCB 3023 Molecular Cell Biology 3 hrs
PCB 3043 Principles of Ecology 3 hrs
PCB 3063 Genetics 3 hrs
PCB 4683 Population Biology and Evolution 4 hrs

Upper Division Restricted Electives (7 hrs)
At least 7 hours of formal course work taught within the Department of Biology (designated as being within the College of Arts & Sciences-AS).

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not 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
Office of Student Support, BA 240
Dr. Robert Pennington, (407) 823-2184

Credit Hour Requirements
Required Accounting Course(s) 21-24 hours
(3-6 hrs)
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting
or
ACG 2023 Principles of Accounting I and II

Required Courses
(15 hrs)
ECO 2013 Principles of Economics I
ECO 2023 Principles of Economics II
FIN 3403 Business Finance
MAN 3025 Management of Organizations
MAR 3023 Marketing

Restricted Elective
A 3000/4000 level business course (3 hrs)
(GEB 3004 may not be used)

Other Requirements
- A grade of "C" is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 9 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

CANADIAN & COMMONWEALTH AREA STUDIES PROGRAM: Minor
College of Arts and Sciences
Dean's Office, CAS 190
Dr. Shirley Leckie, (407) 823-2573

Canadian & Commonwealth Area Studies offers a minor degree. The program focuses on various aspects of Canada, the United Kingdom, and Commonwealth countries. Two tracks are offered to address more specific interests of students. Eighteen credits are required for the minor. A total of six credits may be transferred into the minor with the director's permission.

Credit Hour Requirements
Track 1: Canadian Studies 18 hours
(6 hrs)
AMH 3800 Canadian History 3 hrs
CPO 3132 Canadian Studies 3 hrs

Restricted Upper Division Electives
Select from the following: (6 hrs)
ANT 3312 Ethnology of North Amer Indians
ANT 3313 Indians of North Amer High Plains
CPO 4133 Government & Politics of Canada
CPO 4062 Comparative Judicial Process
PUP 3204 Environmental Politics

* * * * * * *
Credit Hour Requirements 18 hours

Track 2. Commonwealth Studies
A focus on the British Isles and the extended Commonwealth countries of Australia, New Zealand, and Canada.

Required Courses (6 hrs)
- CPO 3132 Canadian Studies 3 hrs
- EUH 4502 British History: 1815-Present 3 hrs

Restricted Upper Division Electives (12 hrs)
- CPO 4123 Government and Politics of Great Britain
- CPO 4062 Comparative Judicial Process
- EUH 4501 English History: 1485-1815
- ENL 4220 English Renaissance Poetry and Prose
- ENL 4240 English Romantic Writers
- ENL 4253 The Victorian Age: Poetry
- ENL 4333 Shakespeare Studies
- ENL 4341 Milton and His Age
- ENL 4273 Modern British Literature
- PHH 3402 Modern British Philosophy

Other Requirements
- An overall GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without prior approval of the program director.
- At least 12 hours must be taken at a senior institution.

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CHEMISTRY: Minor
College of Arts and Sciences
Department of Chemistry, CH 117
chemistry@ucf.edu
Dr. Brooks Madsen, (407) 823-2246

Credit Hour Requirements 28 hours

Required Courses (21 hrs)
- CHM 2045 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 5451L Polymer Chemistry Laboratory

Group II: Select at least one course
- 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

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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COMMUNICATIVE DISORDERS:
Minor
College of Health and Public Affairs
Department of Communicative Disorders
12424 Research Parkway, Suite 200-210
Ms. Barbara Pate, (407) 249-4798

Credit Hour Requirements 25 hours

Required Courses
- SPA 3002 Intro to Communicative Disorders 3 hrs
- SPA 3112C Basic Phonetics 4 hrs
- LIN 4710C Foundations of Language 4 hrs
- SPA 3101 Physiological Bases of Speech/Hearing 3 hrs
- SPA 4032 Audiology I 3 hrs
- SPA 4402C Communicative Disorders: Language 4 hrs
- SPA 4251 Organic Speech Disorders 3 hrs
- SPA 4251L Organic Speech Disorders Laboratory 1 hr

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 19 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

Licensed Speech Language and Audiology Assistant
This new state license may be obtained by completing our 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
art@ucf.edu
Dr. Joyce Lilie, (407) 823-2676

Minor Requirements
Partners in Art in Visual Education (P.A.V.E.)
A minor in Community Arts/P.A.V.E. 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 GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.

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COMPUTER SCIENCE: Minor
College of Arts and Sciences
School of Computer Science, CSB 201
computerscience@ucf.edu
Dr. Ron Dutton, (407) 823-2341

Credit Hour Requirements 18 hours
Required Courses (12 hrs)
COP 3502C Computer Science I 3 hrs
COP 3503C Computer Science II 3 hrs
COP 3530C Computer Science III 3 hrs
COT 3100C Introduction to Discrete Structure 3 hrs
COT 3960 Foundation Exam 0 hrs

Restricted Upper Division Electives (6 hrs)
Select from the following:
CDA 3103C Computer Organization
COP 3402C Systems Software
Any other regularly scheduled 4000-level (or higher) course offered by the computer science department.

Other Requirements
- A grade of "C" is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the School of Computer Science.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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COMPUTER SCIENCE, APPLIED:
Certificate
College of Arts and Sciences
School of Computer Science, CSB 201
computerscience@ucf.edu
Dr. Ron Dutton, (407) 823-2341

The certificate program in Applied Computer Science is designed for students who wish to obtain a practical, working knowledge of computers and the applications of computer science. This coursework covers a broad spectrum of topics ranging from word processing applications to distributed computing. This certificate is not a component of the CSAB accredited B.S. degree from UCF.

Credit Hour Requirements 18 hours
Required Courses 18 hours
Required Courses (6-7 hrs)
Select one course
COP 2500C Concepts in Computer Science
COP 3502C Computer Science I

Restricted Electives (5 hrs)
Select from the following:
COS 2516C/2517C/2518C Spreadsheet Sequence
COS 2540C/2541C/2542C Database Sequence
COS 2580C/2581C/2582C Word Processing Sequence
COS 3163/3164 Distributed Systems Sequence
COS 3170C/3171C Internet Sequence
COS 3260/3267/3268 Architecture Sequence
COS 3280C/3281C/3282C Networks Sequence
COS 3761/3762 Operating System Sequence

* * * * * * *
DIGITAL MEDIA: Certificate
College of Arts and Sciences
CREAT Digital Media Program, CSB 234
creat@cas.ucf.edu
Program Director: Dr. J. Michael Moshell, (407) 823-5341
Creative Director: David Haxton, (407) 823-3110

The certificate program in Digital Media provides students an opportunity to study this evolving field, and to participate in junior and senior projects in partnership with media professionals.

Entrance Requirement
- Admission to the junior year of the Certificate Program requires evaluation of a portfolio of work which demonstrates the student's creativity and technical accomplishment in some artistic or technical domain.
- Admission to the Senior Project requires the student to demonstrate initiative, creativity, and mature technical ability in his or her own area of specialty.
- All evaluations are conducted by the program Curriculum Committee.

Credit Hour Requirements: 29 hours
Required Courses: (18 hrs)
- MMC 3932 New Media Technology Survey 3 hrs
- CAP 4702 Seminar in Digital Arts 3 hrs
- Participation in two semesters of Senior Project 6 hrs
- Senior Project: (6 hrs)
- Credit for the Senior Project is given under various departmental course numbers to conform to different majors' graduation requirements.

CRIMINAL JUSTICE: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPB 113
Dr. Joseph B. Sanborn, Jr., (407) 823-2603

Credit Hour Requirements: 18 hours
Required Courses: (6 hrs)
- CCJ 3024 Criminal Justice System 3 hrs
- CCJ 3014 Crime in America 3 hrs

Restricted Electives: (12 hrs)
- Two of the following:
  - CCJ 3290 Prosecution and Adjudication 3 hrs
  - CCJ 3306 The Corrections and Penology 3 hrs
  - CCJ 4105 Police and Society 3 hrs
- Six semester hours of Criminal Justice Courses (selected with the aid of an advisor).

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

ECONOMICS: Minor
(for both Business Majors and non-majors)
College of Business Administration
Department Economics, BA 325
Dr. Djehane Hosni, (407) 823-2069

Credit Hour Requirements: 24 hours
Required Courses: (15 hrs)
- ECO 2013 Principles of Economics I 3 hrs
- ECO 2023 Principles of Economics II 3 hrs
- ECO 3101 Intermediate Price Theory 3 hrs
- ECO 3203 Aggregate Econ Conditions Anal 3 hrs
- ECO 3411 Quantitative Business Tools II 3 hrs
- Upper Division Restricted Electives: (9 hrs)
- Select from any ECO, ECP or ECS courses at the 3000-4000 level

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- 3 hours of Internship or Independent Study credit can be used toward the minor with prior approval of the academic advisor.

ENGLISH - CREATIVE WRITING: Minor
College of Arts and Sciences
Department of English, FA 301
english@ucf.edu
Dr. Dawn Trouard, (407) 823-2212

Credit Hour Requirements

21 hours

Required Course
CRW 3013 Creative Writing for English Majors (3 hrs)

Restricted Elective Courses
(6 hrs)
Select one course
CRW 2100 Fiction Writing
CRW 2300 Theory and Practice of Poetry Writing
CRW 3211 Creative Nonfiction Writing

Restricted Upper Division Electives
(12 hrs)
CRW 4122 Advanced Fiction Writing Workshop
CRW 4320 Advanced Poetry Writing Workshop
CRW 4224 Advanced Nonfiction Workshop

Other Requirements

- A grade of "C" is required in each course used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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ENGLISH - LITERATURE: Minor

College of Arts and Sciences
Department of English, FA 301
english@ucf.edu
Dr. Dawn Trouard, (407) 823-2212

Credit Hour Requirements

21 hours

Restricted Electives
(12 hrs)
ENL 2012 English Literature I
ENL 2021 English Literature II
ENL 4273 Modern British Literature
AML 3031 American Literature I
AML 3051 American Literature II
LIT 2110 World Literature I
LIT 2120 World Literature II

Restricted Upper Division Electives
(9 hrs)
English courses chosen by student and departmental advisor

Other Requirements

- A grade of "C" is required in each course used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- 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 (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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ENGLISH - TECHNICAL WRITING
& EDITING: Minor

College of Arts and Sciences
Department of English, FA 301
english@ucf.edu
Dr. Dawn Trouard, (407) 823-2212

Credit Hour Requirements

21 hours

Required courses
ENC 3211 Theory & Practice of Tech Writing
ENC 3311 Advanced Expository Writing
ENC 4215 Techniques of Technical Publications
ENC 4218 Visual Elements in Documentation
ENC 4293 Technical Documentation I
ENC 4294 Technical Documentation II
ENC 4295 Technical Documentation III

Students completing the minor may intern with a Central Florida corporation

Other Requirements

- A grade of "C" is required in each course used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.
### ENGLISH - WRITING: Minor

**College of Arts and Sciences**  
**Department of English, FA 301**  
english@ucf.edu  
**Dr. Dawn Trouard, (407) 823-2212**

**Credit Hour Requirements:** 18 hours

**Restricted Elective Courses (18 hrs)**
- Any 3000 or 4000 level ENC or CRW classes for which the student has met the prerequisites, including:
  - CRW 1001: Imaginative Writing for Non-English Majors
  - CRW 2100: Fiction Writing
  - CRW 2300: Theory and Practice of Poetry Writing
  - 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 4320: Advanced Poetry Writing Workshop
  - ENC 3210: Writing for the Business Professional
  - ENC 3211: Theory and Practice of Technical Writing
  - ENC 3241: Writing for the Technical Professional
  - ENC 3283: Science and the Lay Reader
  - ENC 3310: Magazine Writing I
  - ENC 3311: Advanced Expository Writing
  - ENC 3942: Journal Writing Practicum
  - ENC 4341: Magazine Writing II

**Other Requirements**
- A grade of "C" is required in each course used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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### ENVIRONMENTAL STUDIES: Minor

**College of Arts and Sciences**  
**Department of Philosophy, HFA 411**  
liveoak@ucf.edu  
**Director: Dr. Ronnie Hawkins, (407) 823-6514**

The Environmental Studies minor degree is an interdisciplinary program that assists students prepare 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

**Required Course**
- IDS 3XXX: Interdisc Environmental Studies (3 hrs)

**Science & Environmental Electives** (9 hrs)

<table>
<thead>
<tr>
<th>Natural Sciences</th>
<th>Environmental Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 1030 &amp; L: Biology and Environment + lab</td>
<td>BOT 3000: Ethnobotany</td>
</tr>
<tr>
<td>BSC 2010 C: General Biology</td>
<td>BOT 3820 C: Plants and the Urban Environment</td>
</tr>
<tr>
<td>BSC 2011 C: Biological Diversity</td>
<td>BOT 4303 C: Plant Kingdom</td>
</tr>
<tr>
<td>BOT 3154 C: Local Flora</td>
<td>BOT 4866 C: Conservation and Management of Native Plants</td>
</tr>
<tr>
<td>BOT 4680 C: Florida Wildflowers</td>
<td>BOT 5623 C: Plant Geography and Ecology</td>
</tr>
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<td></td>
<td>BOT 4713 C: Plant Taxonomy</td>
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<td></td>
<td>BSC 4XXX C: Marine Biology</td>
</tr>
<tr>
<td></td>
<td>BSC 5937: Trends in Marine Biology</td>
</tr>
<tr>
<td></td>
<td>PCB 3043: Principles of Ecology</td>
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<td></td>
<td>PCB 3043 L: Principles of Ecology Laboratory</td>
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<tr>
<td></td>
<td>PCB 3442: Florida Aquatic Ecology</td>
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<tr>
<td></td>
<td>PCB 4302 C: Physiochemical Limnology</td>
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<tr>
<td></td>
<td>PCB 4303 C: Biological Limnology</td>
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<td>PCB 4683: Population Biology and Evolution</td>
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<td></td>
<td>PCB 5045 C: Conservation Biology</td>
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<tr>
<td></td>
<td>PCB 5326 C: Ecosystems of Florida</td>
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<td></td>
<td>PCB 5485: Models in Ecology</td>
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<td></td>
<td>PCB 5XXX: Landscape Ecology</td>
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<tr>
<td></td>
<td>CHM 3120 C: Analytical Chemistry</td>
</tr>
<tr>
<td></td>
<td>HSC 4500: Epidemiology</td>
</tr>
</tbody>
</table>

**Technology & Society**
- EGN 4813: Science in History
- EGN 4814: Technology in History
- EGN 4818: Technology in North America
- EGN 4824: Energy and Society
- EGN 4825: Environment and Society

**Computational Science**
- CGS 1060 C: Introduction to Computer Science
- CGS 4140: Computerized Health Information Systems
- STA 2023: Statistical Methods I

**Environmental Engineering**
- ENV 4121 C: Air Pollution
- ENV 4341: Solid Waste Management
- ENV 4432: Potable Water Treatment
- ENV 5334: Characterization of Hazardous Waste Sites

**Social & Humanities Electives** (9 hrs)

**Environment & Society**
- PUP 3204: Environmental Politics
- PUP 4503: Government and Science
- PAD 4351: Issues in Environ Program Mgmt
- PLA 4584: Land Use and Environmental Law

**Geography**
- CEG 3301: Eng and Environmental Geology
- GEO 1200: Physical Geography
- GEO 3370: Resources Geography
- GEO 3470: World Political Geography
- GEO 4140 C: Remote Sensing of the Environment

**Philosophy**
- PHI 4400: Philosophy of Science
- PHI 3640: Environmental Ethics
- PHI 4633: Ethics and Biological Science

**Sociology**
- SOP 3004: Social Psychology
- SCE 4023: Teaching Sci and Tech to Children
- ANT 2003: General Anthropology
- ANT 3312: Ethnology of North American Indians
- ANT 2211: Arch and the Rise of Human Culture

**Writing, Journalism Courses**
- JOU 2100: News Reporting
- JOU 4104: Public Affairs Reporting
- PGY 3610 C: Photojournalism
- ENC 3211: Theory and Practice of Technical Writing
- ENC 3283: Science and the Lay Reader
- LIT 4433: Survey of Technical and Scientific Literature
- LIT 3313: Science Fiction

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300
Other Requirements

- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "S" or "D" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

**FILM-CINEMA STUDIES: Minor**
College of Arts and Sciences
Film & Animation Department, COM 221
film@ucf.edu
Mr. David Franklin, 823-5540

**Entrance Requirement**
- Submission of writing portfolio
- 3.0 GPA in all courses
- Acceptance by Film committee

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>24 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL 2400 History of Motion Pictures</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 3006 Art of the Film</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 3XXX Film History to 1945</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 3XXX Film History from 1945 to Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 3503 Film Theory and Criticism I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 3XXX Film Theory and Criticism II</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>Restricted Electives</strong></td>
<td>(6 hrs)</td>
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<tr>
<td>FIL 4409 Women in Film</td>
<td></td>
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<tr>
<td>FIL 3521 French Film</td>
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<tr>
<td>FIL 3522 German Film</td>
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</tr>
<tr>
<td>FIL 3XXX Black Cinema</td>
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</tr>
</tbody>
</table>

**Other Requirements**

- A GPA of "C" is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

**FRENCH: Minor**
College of Arts and Sciences
Foreign Languages and Literatures, FA 523
foreignlanguage@ucf.edu
Dr. Jose Fernandez, (407) 823-2472

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>18 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL 4XXX Adaptation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 3XXX The Short Script</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Restricted Electives**

- Select 6 courses in French, including the 3000-level advanced oral communication and composition course.
- 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 GPA of 2.0 is required in all courses used to satisfy the minor.
- "S" or "D" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without departmental permission.

**GERMAN: Minor**
College of Arts and Sciences
Foreign Languages and Literatures, FA 523
foreignlanguage@ucf.edu
Dr. Jose Fernandez, (407) 823-2472

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>18 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL 3XXX The Short Script</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 4XXX Adaptation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Restricted Electives**

- Select 6 courses in German, including the 3000-level advanced oral communication and composition course.
- 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 GPA of 2.0 is required in all courses used to satisfy the minor.
- "S" or "D" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without departmental permission.
GERONTOLOGY CERTIFICATION
PROGRAM: Certificate
College of Health and Public Affairs
School of Social Work, TR 542
Ms. Margaret Sauer, (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 Gerontology. If currently majoring in an area of certificate coursework, the student should work with their department to coordinate fieldwork. Otherwise, the School of Social Work will plan fieldwork to complete this program. 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 music, music education, physical education, or art education may also find the program valuable.

Credit Hour Requirements  18 hours
Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>HSA 3122</td>
<td>U.S. Health Care Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 3531</td>
<td>Medical Terminology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 3170</td>
<td>Health Care Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4180</td>
<td>Org and Mgmt for Health Agencies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 4500</td>
<td>Epidemiology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4193</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Other Requirements

- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

HEALTH SCIENCES: Minor
College of Health and Public Affairs
Department of Health Professions and Physical Therapy, TR 534
Mr. Timothy Worrell, (407) 823-2214

Credit Hour Requirements  18 hours
Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<td>HSA 4193</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

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 GPA of 2.5 is required in all coursework, and a minimum grade of "C" is required in all Health Courses courses.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

HEALTH SERVICES
ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Health Professions and Physical Therapy, TR 534
Dr. Thomas Mendenhall, (407) 823-2359

Credit Hour Requirements  18 hours
Required Courses

<table>
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<tr>
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<td>HSA 4193</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Other Requirements

- A GPA of 2.5 is required in all coursework, and a minimum grade of "C" is required in all Health Services courses.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

HISTORY: Minor
College of Arts and Sciences
Department of History, FA 544
history@ucf.edu
Dr. Richard Crepeau, (407) 823-2225

Credit Hour Requirements  18 hours
Restricted Upper Division Electives (15 hrs)
Five upper division courses taught within the History Department

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 3122</td>
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<tr>
<td>HSA 4193</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Other Requirements

- A grade of "C" or better is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used without academic advisor's approval.
- Internship or Independent Study credit can not be used toward the minor without departmental approval.
HOSPITALITY MANAGEMENT:
Minor for Business Majors
College of Business
Department of Hospitality Management, BA 409
Dr. Robert Ford, (407) 823-2023

Credit Hour Requirements
18 hours

Required Courses
- HFT 3540 Guest Services Management I 3 hrs
- HFT 4752 Guest Services Management II 3 hrs
- HFT 4210 Hospitality Enterprises Management II 3 hrs
- HFT 4250C Hospitality Operations I 3 hrs
- HFT 4717 Hospitality Operations II 3 hrs

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

HOSPITALITY MANAGEMENT:
Minor for Non-Business Majors
College of Business
Department of Hospitality Management, BA 409
Dr. Robert Ford, (407) 823-2023

Credit Hour Requirements
18 hours

Required Courses
- HFT 3540 Guest Services Management I 3 hrs
- HFT 4752 Guest Services Management II 3 hrs
- HFT 4210 Hospitality Enterprises Management II 3 hrs
- HFT 4250C Hospitality Operations I 3 hrs
- HFT 4717 Hospitality Operations II 3 hrs

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

HUMANITIES-MULTICULTURAL:
Minor
College of Arts and Sciences
Department of Philosophy, FA 411
philosophy@ucf.edu
Dr. Dan White, (407) 823-2273

An interdisciplinary, multicultural minor focusing on several cultural areas, as well as on critical theory and gender studies. Students interested in the Liberal Arts major will find this minor particularly helpful. Courses are to be selected in consultation with a departmental advisor.

Credit Hour Requirements
Select 9 hours in three areas below, or 27 hours
Select 12 hours in two areas below 24 hours

Selection areas
Asian culture or philosophy
HUM 3320 Contemporary Multicultural Studies
HUM 3401 Asian Humanities
ASH 4404 China in 19th and 20th Centuries
ASH 4442 Modern Japan, 19th and 20th Centuries
ANT 3360 Peoples of the Far East
ANT 3363 Anthropology of Japan

European History, Literature or Philosophy
HUM 3431 Ancient World: Greece
HUM 3432 Ancient World: Rome
HUM 4301 The Classical Ideal
HUM 4302 The Romantic Ideal
HUM 4303 The Spiritual Ideal
EUH 3122 Medieval Society and Civilization
EUH 3142 Renaissance and Reformation
EUH 3235 Romanticism and Realism
LIT 3082 Continental European Fiction Since 1900
LIT 3313 Science Fiction
LIT 3383 Women in Literature
LIT 4043 Modern Drama As Literature
ENL 4220 English Renaissance Poetry and Prose
ENL 4311 Chaucer
ENL 4333 Shakespeare Studies
ENL 4341 Milton and His Age
ENL 4240 English Romantic Writers
ENL 4262 Nineteenth Century British Prose
PHI 3700 Philosophy of Religion
PHI 3803 Philosophy and Creativity
PHP 3786 Existentialism
PHI 4400 Philosophy of Science
PHI 4420 Philosophy of Social Science
HUM 4302 The Romantic Ideal

Gender Studies
ARH 4458 Women and Art in the 20th Century America
ARH 4892 Women in Art
PHI 3022 Sexuality, Gender & Philosophy
PHIM 3123 Feminist Theories
ANT 3302 Sex, Gender and Culture
WST 3930H Honors Undergraduate Thesis I

African Studies
See minor

American Studies
See minor

Latin American Studies
See minor

Critical Theory and Practice
PHI 4802 Critical Theory & Practice I
PHI 4804 Critical Theory & Practice II
PHI 3800 Aesthetics
ARH 4800 Theory and Criticism of the Visual Arts

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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INTERPERSONAL COMMUNICATION: Minor
College of Arts and Sciences
School of Communication, COM 243
communication@ucf.edu
Dr. K. Phillip Taylor, (407) 823-2681

Credit Hour Requirements 21 hours
Required Courses (6 hrs)
- COM 3311 Communication Research Methods
- SPC 3301 Interpersonal Communication

Restricted Electives (15 hrs)
- COM 3011 Communication and Human Relations
- SPC 3425 Group Interaction and Decision-Making
- SPC 2330 Nonverbal Communication
- SPC 4350 Studies in Listening
- SPC 4540 Attitudes and Communication
- COM 4461 Intercultural Communication
- COM 4462 Conflict Management

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions 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 (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

ITALIAN: Minor
College of Arts and Sciences
Foreign Languages and Literatures, FA 523
foreignlanguage@ucf.edu
Dr. Jose Fernandez, (407) 823-2472

Credit Hour Requirements 18 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 Electives (18 hrs)
- Select 6 courses in Italian, including the 3000-level advanced oral communication and composition courses.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without departmental permission.

JUDAIC STUDIES: Minor, Certificate
College of Arts and Sciences
Judaic Studies Program, FA 201
Dr. Moshe Pelli, (407) 823-5129

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 Sciences, and Sociology/Anthropology, and with the Liberal Studies and Women’s Studies Programs.

The certificate in Judaic Studies will be awarded to students completing 15 credits in Judaic Studies.

Credit Hour Requirements 18-26 hours
Admission Requirement
Admission by interview with the program Director

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)
- JST 3401 The Jewish People I
- JST 3402 The Jewish People II
- JST 3550 Introduction of Modernism into Judaism
- JST 3701 History of the Holocaust
- JST 3751 Literature of the Holocaust
- HBT 3220 The Israeli Short Story in Translation
- JST 3100 The Hebrew Creative Mind
- JST 3751 Literature of the Holocaust
Credit Hour Requirements: 18 hours

Dr. Jose Fernandez, (407) 823-5389
foreignlanguage@ucf.edu

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 Latin American Foreign Languages and Literatures, FA 505 Peninsular AREA College of Arts and Sciences

Other Requirements
- A grade of "C" or better is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

Latin American & Iberian Area Studies: Minor
College of Arts and Sciences
Foreign Languages and Literatures, FA 505
foreignlanguage@ucf.edu
Dr. Jose Fernandez, (407) 823-5389

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 3328 Maya Archaeology
- ANT 3332 People and Cultures of Latin America
- ANT 3163 Mesoamerican Archaeology
- ANT 4124 Advanced Archaeological Fieldwork
- ANT 4180 Seminar in Laboratory Analysis

Art:
- ARH 4655 Meso American Art

Economics:
- ECO 2013 Principles of Economics I
- ECO 3703 International Economics

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

Political Science:

CPO 4303 Comparative Latin American Politics
INR 4243 International Politics of Latin America
CPO 3034 Politics of Developing Areas

Required Thesis
A thesis must be approved before graduation.

Other Requirements
- A grade of "C" or better is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without departmental permission.

Legal Studies: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPB 113
Dr. Frank Ravitch, (407) 823-2603

Credit Hour Requirements: 18 hours

Required Courses: (3 hrs)
- PLA 3013 Law and the Legal System

Restricted Upper Division Electives: (12 hrs)
12 semester hours of legal studies courses selected with the aid of an advisor.

Restricted Electives: (3 hrs)
3 semester hours of law-related courses selected with the aid of an advisor.

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

Magazine Journalism: Minor
College of Arts and Sciences
School of Communication, COM 244
communication@ucf.edu
Dr. Tim O'Keefe, (407) 823-2681

Prerequisites
- Grammar and Keyboard proficiency test

Credit Hour Requirements: 18 hours

Required Courses: (9 hrs)
- JOU 2100 News Reporting
- JOU 3510 Magazine Writing I
- JOU 3703 Publishing
- JOU 4511 Magazine Editing and Production

Restricted Upper Division Electives: (9 hrs)
- ENC 3310 Magazine Writing I
- JOU 3200 Editing I
- JOU 3202 Editing II
- JOU 4300 Feature Writing
- JOU 4308 Freelance Writing
**Other Requirements**
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the Department of Communication.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without departmental permission.

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**MANAGEMENT INFORMATION**

**SYSTEMS: Minor**

(for both Business Majors and non-majors)

Department of Management, BA 335

**Dr. William Leigh, (407) 823-2923**

**Credit Hour Requirements** 27 hours

**Required Courses** (15 hrs)
- ISM 3005 MIS Techniques 3 hrs
- ISM 4090 Seminar in MIS 3 hrs
- ISM 4212 Database Management Systems 3 hrs
- ISM 4300 Technology Management 3 hrs
- MAN 3025 Management of Organizations 3 hrs

**Restricted Accounting Electives** (6 hrs)
- ACG XXXX (any accounting course)
- ACG XXXX (any accounting course)

**Restricted Electives** (6 hrs)
- ACG 4401 Accounting Information Systems
- COP 3502C Computer Science I
- COP 3503C Computer Science II
- FIN 4453 Financial Models
- HSA 4193 Health Care Automation
- MAN 4540 Management Science & Decision Support
- MAN 4595 Computer-Based Operations Management
- MAR 3613 Marketing Analysis and Research
- MAR 3641 Marketing Intell, Info Sources & Envir Scanning
- ISM XXXX (any Information Systems course)

**Other Requirements**
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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**MASS COMMUNICATION: Minor**

College of Arts and Sciences

School of Communication, COM 240A

**Dr. Mike Meeske (407) 823-2681**

**Credit Hour Requirements** 21 hours

**Required Courses** (15 hrs)
- MAC 2311 Calculus with Analytic Geometry I 4 hrs
- MAC 2312 Calculus with Analytic Geometry II 4 hrs
- MAC 2313 Calculus with Analytic Geometry III 4 hrs
- MAP 2302 Differential Equations 3 hrs
  
(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.
- MHF 2300 Logic and Proof in Mathematics
- MAA XXXX (any course)
- MAD XXXX (any course)
- MAP XXXX (any course)
- MAS XXXX (any course)
- MTG XXXX (any course)

any mathematics Honors courses that are approved for this purpose by the Department Standards Committee.

(Either MAA 3105 or MAA 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" or better is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.
MILITARY SCIENCE: Minor
College of Engineering
Department of Military Science, EN 281
LTC Ed Hampton, (407) 823-2430

Credit Hour Requirements
19 hours
Required Courses
- MIS 3301 The Small Unit Leader 4 hrs
- MIS 3410 Leadership Responsibilities 4 hrs
- MIS 4421 Military Law 4 hrs
- MIS 4430 Advanced Military Science 4 hrs
- AMH 3540 Military History 3 hrs

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor
College of Health and Public Affairs
Department of Molecular Biology and Microbiology, BIO 306
Dr. Robert Gennaro, (407) 823-5932

Credit Hour Requirements
30 hours
Required Courses
- 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
- CGS 2580C/2581C/2582C Word Processing
- CGS 2516C/2517C/2518C Spreadsheet
- CGS 3761/3762 Operating Systems

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

MUSIC: Minor
College of Arts and Sciences
Department of Music, FA 105A
music@ucf.edu
Dr. Lee Eubank, (407) 823-2869

Credit Hour Requirements
21 hours
Admission Requirement
A successful audition on the student's principal instrument or voice

Required Courses
- MUT 1111 Music Theory I A 2 hrs
- MUT 1112 Music Theory IB 2 hrs
- MUT 1241 Ear Training and Sight Singing I A 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

Performance level I-2 semesters 4 hrs
Performance level II-2 semesters 4 hrs
(on the same performance medium)
MUS 1010 Music Forum 0 hrs

Other Requirements
- Two semesters of a major performing organization and two semesters of performance level II, must be completed at UCF
- A GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

NETWORK COMPUTING: Certificate
College of Arts and Sciences
School of Computer Science, CSB 201
computerscience@ucf.edu
Dr. Ron Dutton, (407) 823-2341

The certificate program in Network Computing is designed for students who wish to obtain a practical or working knowledge of computers with a specialization in computer networks. This certificate is not a component of the CSAB accredited B.S. degree from UCF.

Credit Hour Requirements
18 hours
Required Courses
- COP 2500C Concepts in Computer Science 4 hrs
- CGS 3280C/3281C/3282C Networks Sequence 3 hrs
- select any one of the following sequences 2-3 hrs
- CGS 2540C/2541C/2542C Database Sequence
- CGS 3163/3164 Distributed Systems Sequence
- CGS 3266/3267/3268 Architecture Sequence
- CGS 3761/3762 Operating Systems Sequence

Restricted Electives
- CGS 2516C/2517C/2518C Spreadsheet Sequence
- CGS 3170C/3171C Internet Sequence
- CGS 2580C/2581C/2582C Word Processing Sequence
- Any language syntax courses such as Pascal, C, Java (COP 2213, COP 2223, etc.)

Any course listed above, but otherwise not used, may be applied towards this certificate.
May not include independent studies and internships.

Other Requirements
- A minimum grade of "C" is required in each course.
- "D" or "S" grades from other institutions are not accepted.
• At least 12 hours used in the minor must be earned at UCF within the School of Computer Science.
• No credit by exam (CLEP, TSD, Military credit) may be used.
• Internship or Independent Study credit can not be used toward the minor.

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ORGANIZATIONAL COMMUNICATION: Minor
College of Arts and Sciences
School of Communication, COM 243
communication@ucf.edu
Dr. K. Phillip Taylor, (407) 823-2681

Credit Hour Requirements 21 hours

<table>
<thead>
<tr>
<th>Required Courses</th>
<th></th>
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<tbody>
<tr>
<td>COM 3120 Organizational Communication</td>
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<tr>
<td>COM 3311 Communication Research Methods</td>
<td>3 hrs</td>
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<table>
<thead>
<tr>
<th>Restricted Upper Division Electives</th>
<th>(15 hrs)</th>
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<tbody>
<tr>
<td>COM 3011 Communication and Human Relations</td>
<td></td>
</tr>
<tr>
<td>COM 3110 Business and Professional Communication</td>
<td></td>
</tr>
<tr>
<td>SPC 3425 Group Interaction and Decision-Making</td>
<td></td>
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<tr>
<td>SPC 3445 Leadership Through Oral Communication</td>
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</tr>
<tr>
<td>COM 4461 Intercultural Communication</td>
<td></td>
</tr>
<tr>
<td>COM 4462 Conflict Management</td>
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</tr>
</tbody>
</table>

Other Requirements
• A GPA of 2.0 is required in all courses used to satisfy the minor.
• "D" or "S" grades from other institutions 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 (CLEP, TSD, Military credit) may be used.
• Internship or Independent Study credit can not be used toward the minor.

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PHILOSOPHY: Minor
College of Arts and Sciences
Department of Philosophy, FA 411
philosophy@ucf.edu
Dr. Shelley Park, (407) 823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to representative problems and patterns of reasoning in philosophy. Students, in consultation with a departmental advisor, will select courses in accordance with the distributions listed below.

Credit Hour Requirements 21 hours

<table>
<thead>
<tr>
<th>Restricted Electives</th>
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<tbody>
<tr>
<td>PHI 2011 Philosophical Reasoning</td>
<td>(3 hrs)</td>
</tr>
<tr>
<td>PHI 2101 Critical Thinking</td>
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</tr>
<tr>
<td>PHI 3130 Formal Logic I</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>History of Philosophy</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHH 3041 Russian Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHH 3100 Ancient Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHH 3200 Medieval Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHH 3400 Modern Continental Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHH 3402 Modern British Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHH 3601 Contemporary Continental Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHH 3620 Contemporary Analytic Philosophy</td>
<td></td>
</tr>
</tbody>
</table>

Values and Society 6 hrs

| PHI 3400 Philosophy of Law                 |      |
| PHI 2600 Ethics                            |      |
| PHI 3022 Sexuality, Gender & Philosophy    |      |
| PHI 3640 Environmental Ethics              |      |
| PHI 3670 Ethical Theory                    |      |
| PHI 3700 Philosophy of Religion             |      |
| PHI 3800 Aesthetics                        |      |
| PHI 3803 Philosophy and Creativity         |      |
| PHM 3100 Freedom and Justice               |      |
| PHP 3123 Feminist Theories                 |      |
| PHP 3786 Existentialism                     |      |

Philosophical Analysis 6 hrs

| COT 3100C Introduction to Discrete Structure| |
| MHF 2300 Logic and Proof in Mathematics   | |
| PHI 3131 Formal Logic II                  | |
| PHI 3320 Philosophy of Mind                | |
| PHI 4360 Theories of Knowledge             | |
| PHI 4400 Philosophy of Science             | |
| PHI 4420 Philosophy of Social Science      | |
| PHI 4500 Metaphysics                       | |

Other Requirements
• A GPA of 2.0 is required in all courses used to satisfy the minor.
• "D" or "S" grades from other institutions are not accepted.
• At least 12 hours used in the minor must be earned at UCF within the department.
• No credit by exam (CLEP, TSD, Military credit) may be used.
• Internship or Independent Study credit can not be used toward the minor.

* * * * * * *

PHYSICS: Minor
College of Arts and Sciences
Department of Physics, HPB 310
physics@ucf.edu
Dr. Ralph Llewellyn, (407) 823-2325

Credit Hour Requirements 20 hours

<table>
<thead>
<tr>
<th>Required Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2048 Physics for Eng and Sci I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2048L Physics Laboratory for Eng and Sci I</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHY 2049 Physics for Eng and Sci II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2049L Physics Laboratory for Eng and Sci II</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHY 3101 Physics for Eng and Sci III</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Restricted Upper Division Electives</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected from upper-level Physics lecture or laboratory courses appropriate for majors</td>
<td></td>
</tr>
</tbody>
</table>

Other Requirements
• A GPA of 2.0 is required in all courses used to satisfy the minor.
• "D" or "S" grades from other institutions are not accepted.
• At least 12 hours used in the minor must be earned at UCF within the department.
• No credit by exam (CLEP, TSD, Military credit) may be used.
• Internship or Independent Study credit can not be used toward the minor.

* * * * * * *
POLITICAL SCIENCE: Minor
College of Arts and Sciences
Department of Political Science, FA 415
politics@ucf.edu
Dr. Robert Bledsoe, (407) 823-2608

Credit Hour Requirements
18 hours
Required Course
POS 2041 American National Gvt 3 hrs

Restricted Upper Division Electives
15 hrs
- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only 3 hours of POS 4941 (Internship) may be counted

Other Requirements
- A 2.0 GPA is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental permission.

POLITICAL SCIENCE/PRELAB:
Minor
College of Arts and Sciences
Department of Political Science, FA 415
politics@ucf.edu
Dr. Roger Handberg, (407) 823-2608

Credit Hour Requirements
18 hours
Required Courses
POS 2041 American National Gvt 3 hrs
POS 4284 Judicial Process and Politics 3 hrs

Restricted Elective
3 hrs
- Only 3 hours of POS 4941 (Internship) may be counted

Other Requirements
- A 2.0 GPA is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental permission.

PSYCHOLOGY: Minor
College of Arts and Sciences
Psychology Department, PH 302
psychology@ucf.edu
Dr. Jack McGuire, (407) 823-2216

The Psychology Department offers minors in several emphasis areas, including 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.

Credit Hour Requirements
22 hours
Required Courses
10 hrs
- PSY 2013 General Psychology 3 hrs
- STA 2014 Principles of Statistics 3 hrs

Restricted Electives
12 hrs
- 11 hours of Psychology courses, selected in consultation with the departmental advisor.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

PUBLIC ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Public Administration, HPB 202
Dr. Jerry Gianakis, (407) 823-2604

Credit Hour Requirements
21 hours
Required Courses
21 hrs
- ENC 3210 Writing for the Business Professional 3 hrs
- PAD 3003 Public Admin in American Society 3 hrs
- PAD 4034 The Administration of Public Policy 3 hrs
- PAD 4104 Administrative Theory 3 hrs
- PAD 4204 Fiscal Management 3 hrs
- PAD 4414 Public Personnel Administration 3 hrs
- PAD 4720 Survey Research in Public Admin 3 hrs

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, 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, FA 411
philosophy@ucf.edu
Dr. Steve Levensohn, (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.

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
<th>21 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>(3 hrs)</td>
</tr>
<tr>
<td>REL 2300 World Religions</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Restricted Electives</td>
<td>(18 hrs)</td>
</tr>
<tr>
<td>See department for approved list of courses</td>
<td></td>
</tr>
</tbody>
</table>

Other Requirements:
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

RUSSIAN AREA STUDIES: Minor
College of Arts and Sciences
History Department, FA 544
history@ucf.edu
Dr. Richard Crepeau, FA 551, (407) 823-2224

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
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<tbody>
<tr>
<td>Language requirement</td>
<td>(0-11 hrs)</td>
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<tr>
<td>3 semester hours or proficiency</td>
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</tr>
<tr>
<td>Required Courses</td>
<td>(12 hrs)</td>
</tr>
<tr>
<td>RUS 3500 Russian Culture</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EUH 4576 History of Russia in the 20th Century</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CPO 4643 Government and Politics of Russia</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHH 3041 Russian Philosophy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Restricted Upper Division Electives</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>EUH 4571 History of Russia to 1801</td>
<td></td>
</tr>
<tr>
<td>EUH 4574 History of Russia: 1801-1917</td>
<td></td>
</tr>
<tr>
<td>CPO 3614 Politics of Eastern Europe</td>
<td></td>
</tr>
<tr>
<td>ECO 3703 International Economics</td>
<td></td>
</tr>
</tbody>
</table>

Other Requirements:
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor
College of Arts and Sciences
Liberal Studies Program
liberalstudies@ucf.edu
Dr. Don Jones, (407) 823-0144

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
<th>21 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>(3 hrs)</td>
</tr>
<tr>
<td>A methods course, selected from</td>
<td></td>
</tr>
<tr>
<td>POS 3703 Scope and Methods of Political Science</td>
<td></td>
</tr>
</tbody>
</table>

PSY 3214C Research Methods in Psychology
SYA 3300 Research Methods

Restricted Electives (18 hrs)
- Select a minimum of 6 hours in each of 3 different departments
  - Communication
  - Economics
  - Political Science
  - Public Service Administration
  - Psychology
  - Sociology & Anthropology

Other Requirements:
- A cumulative GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- At least 15 hours must be upper division classes.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

SPACE STUDIES: Minor
College of Engineering
Department of Mechanical, Materials and Aerospace Engineering, ENGR 311
Dr. E. Ramon Hosler, (407) 823-5828
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 21 hours
Required Courses (9 hrs)
AST 2002 Astronomy 3 hrs
GEO 4140C Remote Sensing of the Environment 3 hrs
PUP 3508 Space Studies or 3 hrs
PUP 4510 Space Policy
Restricted Electives (12 hrs)
EAS 3010 Fundamentals of Aerospace Flight
EAS 3101 Fundamentals of Aerodynamics
EAS 3530 Space Systems Concepts
EAS 4505 Orbital Mechanics
EGN 4830 Telecommunications
GEO 1200 Physical Geography
GEO 3370 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 GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

** ** ** ** **

SPANISH: Minor
College of Arts and Sciences
Foreign Languages and Literatures, FA 523
foreignlanguage@ucf.edu
Dr. Jose Fernandez, (407) 823-2472

Credit Hour Requirements 18 hours
Required Courses
- Select 6 courses in Spanish, including the 3000-level advanced upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without departmental permission.

** ** ** ** **

STATISTICS: Minor
College of Arts and Sciences
Statistics Department, CC II 212
statistics@ucf.edu
Dr. David Nickerson, (407) 823-5528

Credit Hour Requirements 18 hours
Required Courses (12 hrs)
STA 2023 Statistical Methods I 3 hrs
or
STA 3032 Probability and Statistics for Engineers 3 hrs
STA 4163 Statistical Methods II 3 hrs
STA 4164 Statistical Methods III 3 hrs
STA 4222 Sample Survey Methods 3 hrs
or
STA 4502 Nonparametric Statistical Methods
Restricted Upper Division Electives (6 hrs)
STA 3xxx-4xxx courses (STA 2023 or STA 3032 or the equivalent can not be used as a restricted elective)

Other Requirements
- A grade of "C" is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

** ** ** ** **

TECHNOLOGY AND SOCIETY: Minor
College of Engineering
Dr. Richard G. Denning, PAV 491, (407) 384-2161

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 1104 College Algebra
GEP Cultural and Historical Foundations

Restricted Upper Division Electives
A minimum of 9 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 4818 Technology in North America
EGN 4823 Topics in Urban Development
EGN 4824 Energy and Society
EGN 4825 Environment and Society
EGN 4830 Telecommunications
EGN 4832 Computers, Cybernetics and Society
EGN 4844 Man and Machine
ETI 3671 Technical Economic Analysis
ETI 4205 Applied Logistics
ETI 4700 Occupational Safety
GEO 3370 Resources Geography
LIT 3313 Science Fiction
LIT 4433 Survey of Technical and Scientific Literature
PUP 3204 Environmental Politics
PUP 4503 Government and Science
PUP 4510 Space Policy

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
Dr. Carole Adams, 
WOMEN'S STUDIES: 
Women's Studies Program, HFA 
College of Arts and Sciences 
Credit Hour Requirements 
Other Requirements

Mr. Joe Rusnock, (407) 823-2861

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THEATRE-GENERAL: Minor
College of Arts and Sciences
Theatre Department, THE 120
theatre@ucf.edu
Mr. Joe Rusnock, (407) 823-2861

Credit Hour Requirements 27 hours
Entrance Requirement
A successful interview and audition or portfolio review
Note: The number assigned many courses will change.
Use the Prefix and title to determine the proper course.

Required Courses (27 hrs)
THE 1020 Theatre Survey 3 hrs
THE 3090* Theatre Production/Performance I 1 hr
THE 3303 Play Analysis 3 hrs
THE 3091* Theatre Production/Performance II 1 hr
THE 4092* 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
TPP 2100 Acting I 3 hrs
TPA 2210* Stagecraft I 3 hrs
THE 3306 Dramatic Literature II 3 hrs

* Course must be taken at UCF

Other Requirements
- Participation on a minimum of one (1) departmental production during both the Fall and Spring terms for four (4) semesters
- A grade of "C" is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- 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 (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor.

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WOMEN'S STUDIES: Minor
College of Arts and Sciences
Women's Studies Program, HFA 201
Dr. Carole Adams, (407) 823-6502

Credit Hour Requirements 18 hours
Required Courses (3 hrs)
WST 3010 Introduction to Women's Studies

Restricted Upper Division Electives (12-15 hrs)
AMH 3561 Women in American History I
AMH 3562 Women in American History II
AMH 5566 Colloquium: Women in American History
ANT 3302 Sex, Gender and Culture
ARH 4458 Women and Art in 20th Century America
ARH 4892 Women in Art

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ARH 5478 Contemporary Women Artists
COM 4XXX Gender Issues in Communication
CCJ 4670 Women and Crime
EUH 4610 Women in European Society
FIL 4409 Women in Film
LIT 3383 Women in Literature
LIT 4XXX Advanced Feminist Theories
NUR 4935 Women’s Health Issues
PHI 3022 Sexuality, Gender & Philosophy
PHM 3123 Feminist Theories
PUP 4323 Women and Politics
SOP 3742 Psychology of Women
SOW 5625 Social Work with Women
SYD 3800 Sex Roles in Modern Society
SYF 4810 Women in Contemporary Society
WST 4002 Researching Women and Gender

Restricted Electives (0-3 hrs)
AML 3614 Topics in African-American Literature
AML 4261 Literature of the South
ANT 3422 Peoples of the World
CCJ 4463 Cultural Diversity in Criminal Justice
CCJ 4681 Domestic Violence and the Justice System
LIT 3354 Ethnic Literature in America
PEM 2405 Self Defense for Women and Men
PHI 3640 Environmental Ethics
PHI 4360 Theories of Knowledge
PHI 4400 Philosophy of Science
PHI 4804 Critical Theory & Practice II
POT 4066 Contemporary Political Theory
SOP 2772 Sexual Behavior
SYO 4100 Family Trends
THE 3230 Cultural Diversity through Theater

Other courses as approved by the Women’s Studies advisor.

Other Requirements
- A GPA of 2.0 is required in all courses used to satisfy the minor.
- "D" or "S" grades from other institutions are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship or Independent Study credit can not be used toward the minor without approval of the program coordinator.

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ADDITIONAL UCF PROGRAMS

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)
College of Arts and Sciences
Foreign Languages and Literatures, FA 523
foreignlanguage@ucf.edu
Dr. Consuelo Stebbins, (407) 823-0088

The Department of Foreign Languages and Literatures offers three (3) courses in ESOL and has received State approval of an ESOL Endorsement Program.

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FOREIGN STUDY ABROAD: Program
College of Arts and Sciences
Foreign Languages and Literatures, FA 201
foreignlanguage@ucf.edu
Dr. Heinrich Barsch (407) 823-2472

The Department of Foreign Languages and Literatures has been offering a Summer Study program in Spain since 1972, in Italy since 1975, in Québec Canada since 1990, and in Germany since 1991. These programs are approved by the State of Florida Board of Regents and are offered annually. Credit courses are available in language at all levels. The programs are open to all students of the State University System of Florida and to others as well.

Jonquière, Québec, Canada

Jonquière is a modern city of 60,000 in the picturesque and mountainous Lac Saint-Jean region, about 150 miles north of Québec City. Students live with carefully selected French-speaking families, receive 6 hours or more of classroom instruction in French each weekday, and must pledge to speak French only at all times during the program. Courses in French language and civilization are offered at the intermediate and advanced levels, and all participants earn 8 credits. Educational weekend excursions and a number of socio-cultural activities are included. The program takes place during Summer A term.

Koblenz, Germany

Koblenz is a charming city located in one of the most 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 had an international flair. The program is housed at the University of Koblenz and offers courses in German language and civilization at all levels. A number of spectacular excursions are included. This program takes place during Summer B term.

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 program takes place during Summer B term.

Madrid and Andalucía, Spain

This program is intended for students who wish to begin or continue their study of Spanish language and civilization. Students are housed with select Spanish families and earn 8-9 semester credits for the program. Language and literature courses are offered from the beginning through advanced levels. This intense learning experience includes a tour of Andalucía and its famed cities. The program takes place during Summer B term.
The University course numbering system is as follows:

- **0-0999**: Subcollegiate level and may not be 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 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).
- **6000-7999**: Beginning graduate and professional level courses open only to graduate students and do not apply toward a baccalaureate degree. (See Graduate Catalog)

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 two participating private institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have 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."

### Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code</th>
<th>Century Digit</th>
<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>No laboratory</td>
</tr>
<tr>
<td>Sociology, General</td>
<td>Freshman Entry-level Survey Social</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>level at this General Course Problems component in this course</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 the 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 postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which the students normally take this 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 participating regionally accredited postsecondary institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the same prefix and last three digits 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 native students. It is the prerogative of the receiving institution, however, to offer credit for courses successfully completed which have not been designated as equivalent.

Sometimes, as in Chemistry, a sequence of one or more courses must be completed at the same institution in order for the courses to be transferable to another institution, even if the course prefix and numbers are the same. This information is contained in the individual SCNS course equivalency profiles for each course in the sequence.

**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 used 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 regionally accredited postsecondary institutions 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 equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy requirements in these institutions on the same basis as native students.

**EXCEPTIONS TO THE GENERAL RULE FOR EQUIVALENCY**

The following courses are exceptions to the general rule for course equivalencies and may not be transferable. 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

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 Enrollment and Academic Services, AD 210, Phone (407) 823-2691 or the Florida Department of Education, Office of Postsecondary Education Coordination, 1101 Florida Education Center, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling (850) 488-6402 or Suncom 278-6402.

An alphabetical listing of prefixes:

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<th>Prefix</th>
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**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 subcollegiate 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. Consult your academic advisor for details.

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<th>Course Code</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>Directed Independent Studies</td>
<td>Undergraduates: 3905 4906</td>
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<tr>
<td>Directed Independent Research</td>
<td>Undergraduates: 3912</td>
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<tr>
<td>Special Topics/Seminars</td>
<td>Undergraduates: 3930 4932</td>
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<tr>
<td>*Internships, Practicums, Clinical Pract</td>
<td>Undergraduates: 3940 4941</td>
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<tr>
<td>Cooperative Education (COE)</td>
<td>Undergraduates: 1949, 2949 3949, 4949</td>
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<tr>
<td>Honors Undergraduate Thesis</td>
<td>Undergraduates: 3970 4970</td>
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<tr>
<td>Honors Directed Reading 1</td>
<td>Undergraduates: 4903</td>
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<tr>
<td>Honors Directed Reading 2</td>
<td>Undergraduates: 4904</td>
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</table>

*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.

**PR: PREREQUISITE**

A course in which credit must be earned prior to enrollment in the listed course.

**CR: COREQUISITE**

A course which must be taken concurrently with, or prior to, the listed course.
Each course listed is followed by a code which shows hours of credit and contact hours. Example: ENV 4121C \( \text{EN-CEE} \) 3(2,3)

ENV 4121C is offered by the College of Engineering (EN), 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.

Courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Contact your advisor or college for specific program requirements or additional information.

Following the course number for each course listed is an indicator denoting the college and department responsible for the course. The college designators are AS = Arts & Sciences, BA = Business Administration, ED = Education, EN = Engineering, and HPA = Health and Public Affairs. Department indicators are listed below (by college):

<table>
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<tr>
<th>COLLEGE</th>
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<td>African American Studies</td>
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<td>HPA</td>
<td>Social Work</td>
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ACG 2021 BA-ACCT 3(3,0)

ACG 2023 BA-ACCT 6(6,0)
Principles of Accounting I and II: PR: Junior standing and MAC 1104 or equivalent. Same as ACG 2021 and the ACG 2021, 2071 sequence.

ACG 2071 BA-ACCT 3(3,0)
Principles of Managerial Accounting: PR: ACG 2021 and MAC 1104 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 1104, ECO 2013 and ECO 2023; and ACG 2071 or ACG 2023 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 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, MAC 1104, ECO 2013, and ECO 2023, and ACG 2071 with a grade of "C" in ACG 2071, completion of or concurrent enrollment in ACG 3101. Cost concepts, cost of goods manufactured, job order costing, process costing, standard costing, relevant cost analysis, and overhead/joint cost allocations.

ACG 3501 BA-ACCT 3(3,0)
Financial Accounting for Governmental and Nonprofit Organizations: PR: ACG 3101 with a grade of "C" or better, or C.I. Accounting for governments and other nonprofit organizations, with emphasis on financial reporting issues and problems.

ACG 4203 BA-ACCT 3(3,0)
Advanced Accounting: PR: Intermediate Financial Accounting II 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 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 5005 BA-ACCT 3(3,0)
Financial and Managerial Accounting Concepts: PR: Acceptance into the graduate program. (Not open to Accounting majors.) The conceptual background for understanding financial statements and management accounting reports.

ACG 5206 BA-ACCT 3(3,0)

ACG 5346 BA-ACCT 3(3,0)
Cost Accounting II: PR: Acceptance for graduate study. ACG 3361, ACG 3111, FIN 3403, ECO 3411. Overhead allocation, capital budgeting and analysis. EOQ analysis, decentralization, and quantitative decision analysis.

ACG 5506 BA-ACCT 3(3,0)
Accounting for Governmental and Nonbusiness 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 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.

ACG 5636 BA-ACCT 3(3,0)
Advanced Auditing Topics: PR: Acceptance for graduate study and ACG 4651, STA 2023. Special topics relative to the standards, practices, and procedures followed in the audit function. Includes statistical sampling, advanced computer systems, advanced applications, and reporting problems.

ADE 4382 ED-IP 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 4000 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 4003 AS-COMM 3(3,0)
Advertising Layout and Preparation: PR: Majors only. PR: ADV 4000 or C.I. Advertising design and layout for print media; reproduction methods and requirements; art background not required.

ADV 4101 AS-COMM 3(3,0)
Advertising Copyrighting: PR: ADV 4000 or C.I. and Grammar Proficiency Exam. Advertising copyrighting 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. PR: ADV 4000 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 philosophical foundations in African American intellectual and cultural history.

AFA 1101 EN-AFROTC 1(1,2) The Air Force Today I: History, mission, organization, and doctrine of the United States Air Force and a study of U.S. Strategic Offensive and Defensive Forces.

AFA 1111 EN-AFROTC 1(1,2) The Air Force Today II: A brief review of the Army, Navy, and Marine force. An introduction to special operations and counterinsurgency.

AFA 2130 EN-AFROTC 1(1,2) The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II.

AFA 2131 EN-AFROTC 1(1,2) The Development of Air Power II: A study of the development of aerospace capabilities since World War I, highlighting technological advancements and the role of aerospace power in the contemporary world.

AFA 3220 EN-AFROTC 3(3,2) Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles.

AFA 3230 EN-AFROTC 3(3,2) Air Force Evaluation and Management II: A concluding study of Air Force management fundamentals, including performance evaluation skills.


AMH 2010 AS-HIST 3(3,0) U.S. History: 1492-1877: Survey of U.S. History from 1492-1877.


AMH 2020H AS-HIST 3(3,0) Honors U.S. History: 1877-Present: PR: AMH 2010 or C.I. Same as AMH 2020 with honors-level content.

AMH 3402 AS-HIST 3(3,0) History of the South to 1865: PR: AMH 2010 or 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.

AMH 3403 AS-HIST 3(3,0) 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.

AMH 3421 AS-HIST 3(3,0) History of Florida to 1845: PR: AMH 2010 and 2020 or C.I.

AMH 3423 AS-HIST 3(3,0) Florida History 1845-Present: PR: AMH 2010 and 2020 or C.I.

AMH 3441 AS-HIST 3(3,0) History of the Frontier: Eastern America: PR: AMH 2010 and 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.

AMH 3442 AS-HIST 3(3,0) 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.

AMH 3540 AS-HIST 3(3,0) Military History: A survey of US military History from the European background of the colonial period through the contemporary military experience.


AMH 3562 AS-HIST 3(3,0) Women in American History II: PR: AMH 2010, AMH 2020 or C.I. Examines industrialization, entry of women into higher education and professions, winning of suffrage, changing profile of female wage earner, and rise of modern feminist movement.


AMH 3586 AS-HIST 3(3,0) History of the Hispanic Minorities in the U.S.: Course covers 16th century through the modern period. Special emphasis on Chicanos, Puerto Ricans, and Cubans.

AMH 3610 AS-HIST 3(3,0) 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.

AMH 3800 AS-HIST 3(3,0) Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867.
its origins,

AMH 4310 AS-HIST 3(3,0)
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.

AMH 4313 AS-HIST 3(3,0)
American Culture I: PR: AMH 2010 and 2020 or C.I. The European Backgrounds: Puritanism; Enlightenment; the Great Awakening; Revolutionary Thought: Romanticism; the Southern Mind and the Yankee Response; Popular Culture and the rise of recreation.

AMH 4311 AS-HIST 3(3,0)
American Culture II: PR: AMH 2010 and 2020 or C.I. The Darwinian Revolution; revolt of the intellectuals; the media explosion; mass entertainment in mass culture; the loss of community, the nuclear age, and presentism.

AMH 4500 AS-HIST 3(3,0)

AMH 4511 AS-HIST 3(3,0)
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 4231 AS-HIST 3(3,0)
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.

AMH 4510 AS-HIST 3(3,0)
Rise of the United States to World Power, 1776-1914: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict.

AMH 4140 AS-HIST 3(3,0)
Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Philadelphia Convention and its work.

AMH 4170 AS-HIST 3(3,0)
Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism.

AMH 4160 AS-HIST 3(3,0)
Jacksonian America: PR: AMH 2010 and 2020 or C.I. The Federalists, Jeffersonian Democracy, and the War of 1812.

AMH 4201 AS-HIST 3(3,0)
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.

AMH 4270 AS-HIST 3(3,0)
United States History: 1939-1960: PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties.

AMH 4273 AS-HIST 3(3,0)
United States History Since 1960: PR: AMH 2010 and 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.

AMH 4311 AS-HIST 3(3,0)
American Culture I: PR: AMH 2010 and 2020 or C.I. The European Backgrounds: Puritanism; Enlightenment; the Great Awakening; Revolutionary Thought: Romanticism; the Southern Mind and the Yankee Response; Popular Culture and the rise of recreation.

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 3614 AS-HIST 3(3,0)
Topics in African-American Literature: PR: ENC 1102. Literature by and about
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 3122 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 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 3184 AS-SOC/AN 3(3,0)

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 3262 AS-SOC/AN 3(3,0)

ANT 3271 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)

ANT 3328 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 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 3360 AS-SOC/AN 3(3,0)
Peoples of the Far East: A survey of the peoples of China, Japan, and Korea from the anthropological perspective.

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 3422 AS-SOC/AN 3(3,0)

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 3610 AS-SOC/AN 3(3,0)
Language and Culture: PR: Sophomore
standing. The study of language in a nonwestern setting; language and behavior; language and perception.

ANT 4084 AS-SOC/AN 3(3,0) History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology.

ANT 4124 AS-SOC/AN 9(9,0) Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork.

ANT 4180 AS-SOC/AN 3(1,4) Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication.

ANT 4466 AS-SOC/AN 3(3,0) Medical Anthropology: PR: ANT 2003 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications.

ANT 4527 AS-SOC/AN 3(3,0) Functional Morphology of the Human Skeleton: PR: ANT 2511, ZOO 3733 is recommended. The functional anatomy of the human skeleton, with emphasis on its structure, function and evolution. Differences between fossil and modern humans are explored.

ANT 4586 AS-SOC/AN 3(3,0) Human Origins: PR: ANT 2511. The fossil evidence for human evolution from Miocene hominids through the australopithecines and earliest members of the genus homo.

ANT 5479 AS-SOC/AN 3(3,0) Comparative Cultural Analysis: The dynamics of cultural processes in a multi-ethnic setting.

APB 3600 HPA-H&PT 3(3,0) Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage.

APB 4651 HPA-H&PT 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, myoclytics, etc.

APB 4652 HPA-H&PT 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 1120C 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 1121 AS-LANG 4(4,1) Elementary Arabic Language and Civilization II: PR: ARA 1120 or C.I. Continuation of ARA 1120.

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 3550 AS-ART 3(3,0) Introductory to Art Therapy: A survey of the literature, theories and practices of art therapy.

ARE 3554 AS-ART 3(3,0) Art Therapy Methods: This course presents methodologies used by the Art Therapists and demonstrates how Art Therapy is put into practice.

ARE 3562 AS-ART 3(3,0) Community Arts I: A survey of the basic theoretical issues related to community arts programming.

ARE 3563 AS-ART 3(3,0) Community Arts II: A survey of the basic methodologies for applying the theoretical issues to community arts programming taught in Community Arts I.

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.

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.

ARE 4313 ED-IP 3(2,1) Art in the Elementary School: Basic principles, purposes, scope and sequence: organization for instruction, evaluation of activities, selected art experiences.

ARE 4351 ED-IP 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.

ARE 4352 ED-IP 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.

ARE 4356 ED-IP 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.

ARE 4945 AS-ART 12(6,12) Community Arts Internship: An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience.

ARE 5251 ED-IP 3(2,1) Art for Exceptionalities: Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped.

ARE 5255 ED-IP 3(2,1) Arts in Recreation: Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas.

ARE 5454 ED-IP 3(3,0) Found Arts: PR: C.I. Materials available for instruction in the public schools will be explored in depth in relation to their appropriateness and productive qualities.

ARE 5648 ED-IP 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.

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
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 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 2051 AS-ART 3(3,0)
The History of Art II: Painting, sculpture and architecture from the Baroque through the 20th century.

ARH 2051H AS-ART 3(3,0)
Honors History of Art II: Same as ARH 2051 with honors-level content.

ARH 3060 AS-ART 3(3,0)

ARH 3456 AS-ART 3(3,0)
Art After 1945: A seminar for upper-level art students to examine historically the art of Post WW II

ARH 3520 AS-ART 3(3,0)
African Art: Teach the continuities between African, Afro-Caribbean and Afro-American Arts.

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 3530 AS-ART 3(3,0)
Asian Art: History of visual arts of China, Japan, India, and other Eastern cultures.

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 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 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 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 3728 AS-ART 3(3,0)
American Art: PR: ARH 2050 and ARH 2051 or C.I. Surveys American Art to 1900. Leading artists are identified and representative examples of their work are discussed within the context of major themes, patterns, sources.

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.

ARH 3820 AS-ART 3(3,0)
Visual Arts Administration: Viitas: grant applications; Personnel; copyright laws; museum practices, etc.

ARH 4170 AS-ART 3(3,0)
Greek & Roman Art: PR: ARH 2050 or HUM 3431 or HUM 3432 and ENC 1102 or C.I. A study of the art and architecture of the ancient civilizations of the Mediterranean, comprising Greece, Eturia, and Rome.

ARH 4310 AS-ART 3(3,0)
Early Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of Italian Art and Architecture from 1300 to 1500.

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.

ARH 4430 AS-ART 3(3,0)
19th Century Art: A survey of the trends and developments in art during the 19th century, including the art of America and of Western Europe.

ARH 4440 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.

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.

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.

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.

ARH 4800 AS-ART 3(3,0)

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 5451 AS-ART 3(3,0)
Artistic World Views: PR: Post-Baccalaureate status, 9 hours of art courses, or C.I. Art from individuals and cultural perspectives of varying ethnic, religious, occupational, regional, and generational groups.

ARH 5454 AS-ART 3(3,0)
Found Arts: PR: C.I. Materials available for instruction in the public schools will be explored in depth in relation to their appropriateness and productive qualities.

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 5933 AS-ART 3(3,0)

ARH 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 2110C AS-ART 3(2,4)
Beginning Ceramics: PR: ART 2201 or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery.

ART 2111C AS-ART 3(2,4)
Advanced Ceramics: PR: ART 3110C. May be repeated for credit.

ART 2130C AS-ART 3(2,3)
Fibers, Fabrics, Textiles and Synthetics: Textile design and production, including non-loom weaving processes. May be repeated for credit.

ART 2133C AS-ART 3(3,0)
Fibers & Fabrics: Design and production training in surface design, floor loom weaving and fiber sculpture.

ART 2198C ED-IP 3(2,3)

ART 2201C AS-ART 3(2,4)
Design Fundamentals I: 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 II: Continuation of color theory and basic three-dimensional design using the various sculptural media.

ART 2220C AS-ART 3(2,4)
Graphic Design I: PR: ART 2201C. Basic principles, concepts, and techniques in graphic design and art for visual publication.

ART 2223C AS-ART 3(2,4)

ART 2238C AS-ART 3(2,4)
Graphic Design II: PR: ART 2220C or C.I. A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and visual publication.

ART 2300C AS-ART 3(2,4)
Drawing Fundamentals I: 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: Continuation of ART 2300C.

ART 2400C AS-THEA 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 2510C AS-ART 3(2,4)
Beginning Painting: PR: ART 2300C, ART 2201, 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 Graphics: The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems.

ART 2610C AS-ART 3(2,3)

ART 3111C AS-ART 3(2,4)
Intermediate Ceramics: PR: ART 2110C or C.I. Continuation of ceramic processes.

ART 3161 AS-ART 3(3,0)
Mixed Media: PR: Junior standing. Concepts and techniques involving the creation of art objects by integrating painting, sculpture, drawing, design, and art history.

ART 3204C AS-ART 3(2,3)

ART 3232C AS-ART 3(2,4)
Intermediate Graphic Design II: PR: Acceptance in Graphic Design Concentration, ART 3239C or C.I. Further development of studio techniques and problems in graphic design.

ART 3239C AS-ART 3(2,4)
Intermediate Graphic Design I: PR: Sophomore level portfolio review and acceptance in Graphic Design Concentration and ART 2238C or C.I. Methods related to studio projects in graphic design.

ART 3253C AS-ART 3(2,4)
Illustration: PR: ART 2201, ART 2203, ART 2300 or C.I. Pictorial and representational illustration using various media and techniques.

ART 3281C AS-ART 3(2,4)
Type & Design: A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and publication.

ART 3330C AS-ART 3(2,4)
Intermediate Drawing I: PR: Six semester hours of Drawing Fundamentals or C.I. Intermediate problems in drawing, with emphasis on the human form.

ART 3331C AS-ART 3(2,4)
Intermediate Drawing II: PR: C.I. Continuation of Intermediate Drawing I.

ART 3400C AS-ART 3(2,4)

ART 3520C AS-ART 3(2,4)
Intermediate Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C or C.I. Reinforces and extends methods and materials content of ART 2XXX, Beginning Painting and deals with issues of figurative painting.

ART 3610C AS-ART 3(2,4)
Computer Graphic Design: PR: Acceptance in Graphic Design Concentration, ART 3239C, or C.I. Problems involving the use of computer graphic systems for visual publication.

ART 3680 AS-ART 3(3,0)
Animation Production Methods: PR: C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit.

ART 3701C AS-ART 3(2,4)
Computer Graphic Design: PR: ART 2203C, including three semester hours in three-dimensional work, or C.I.

ART 3833 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 4107C AS-ART 3(2,4)
Kiln Design and Building: PR: ART 3111C and ART 4111C or C.I. The design and construction of kilns, use of refractory materials, and the theory of efficient fuel combustion.

ART 4114C AS-ART 3(2,4)
Advanced Graphic Design: PR: ART 4111C, ART 3110C, or C.I. Advanced problems in the ceramic process. May be repeated for credit.

ART 4121C AS-ART 3(2,4)
Ceramic Raw Material: PR: ART 3111C. An in-depth understanding of the singular and diverse properties of clay and glaze materials.

ART 4124C AS-ART 3(2,4)
Ceramic Handbuilding II: PR: ART 3111C. Technical skills in manipulating form, function, volume, color and surface texture.

ART 4138C AS-ART 3(2,4)
Advanced Fiber Design: PR: ART 4138C or C.I. Advanced problems in design and production, including non-loom weaving processes. May be repeated for credit.

ART 4235C AS-ART 3(2,4)
Advanced Graphic Design: PR: Acceptance in Graphic Design Concentration, ART 3XXX (Beginning Graphic Design II) or C.I. Practical studio problems, with emphasis on organization of visual design elements.

ART 4237C AS-ART 3(2,4)
Special Problems in Graphic Design: PR: ART 4235C or C.I. Advanced problems in visual design and reproduction. May be repeated for credit.

ART 4260C AS-ART 3(2,4)
Advanced Illustration: PR: ART 3253C 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 3331C. May be repeated for credit.

ART 4402C AS-ART 3(2,4)
Advanced Printmaking: PR: ART 3400C. May be repeated for credit.

ART 4483C AS-ART 3(2,4)

ART 4530C AS-ART 3(2,4)
Advanced Painting: PR: ART 3520C. Advanced problems in painting. May be repeated for credit.

ART 4703C AS-ART 3(2,4)
Advanced Sculpture: PR: ART 3701C. May be repeated for credit.

ART 4935 AS-ART 3(3,0)
BFA Seminar: CR: All courses required for BFA degree. This is a required capstone course for all Art BFA graduates.

ART 4935 AS-ART 3(3,1)
BFA Exhibit/Seminar: PR: Must complete Studio course for BFA. This course is designed to prepare BFA students for BFA Exhibition

ART 4945 AS-ART 6(0,6)
C.R.E.A.T. Project: PR: Adv. Computer Animation. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry.

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.

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 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.

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 3110 AS-PHYS 3(3,0)

AST 3211 AS-PHYS 3(3,0)

AVM 2510 BA-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)

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.

BES 3512 AS-PSYCH 2(2,0)
Behavioral Weight Control: Application of behavioral techniques to produce weight loss. Diet, exercise, and behavioral self-regulation principles are used in an individual student case study approach.

BOT 1000 AS-BIOL 3(3,0)
Plant Science: Plant life related to biological principles and the physical and cultural impact of plants on human individuals and civilization. Designed for non-majors.

BOT 1000L AS-BIOL 1(0,2)
Plant Science Lab: CR: BOT 1000. The laboratory to accompany BOT 1000.

BOT 3154C AS-BIOL 3(1,4)
Local Flora: PR: BSC 2011C or C.I.
Recall 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: C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. Designed for majors and non-majors.

BOT 4223C AS-BIOL 4(3,3)
Plant Anatomy: PR: BSC 2010C and BSC 2011C. 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. A survey of the plant kingdom utilizing comparative morphology, structure and functions to demonstrate relationships among extant and extinct forms.

BOT 4503C AS-BIOL 4(3,1-3)
Plant Physiology: PR: PCB 3023 or C.I. A study of mechanisms used by plants to cope with the environment.

BOT 4680C AS-BIOL 4(2,6)

BOT 4686C AS-BIOL 4(3,3)
Conservation and Management of Native Plants: PR: BOT 4713C, PCB 3043 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)

BOT 5495C AS-BIOL 3(2,3)
Bryology: PR: BOT 4303C or C.I. A lecture-laboratory survey course on the diversity and classification of mosses, liverworts, and hornworts, with special emphasis on those found in Florida.

BOT 5623C AS-BIOL 4(3,3)
Plant Geography and Ecology: PR: PCB 3043 or C.I. The study of the abiotic and biotic processes that control the distribution of terrestrial flora at local, landscape, and global scales.

BOT 5705C AS-BIOL 4(3,2)
Plant Biosystematics: PR: Graduate standing or C.I. Evolutionary processes among plant taxa and populations utilizing cytology, morphology, biochemistry, breeding systems and co-evolution.

BSC 1020 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 1020L AS-BIOL 1(0,2)
Biological Principles Laboratory: CR: BSC 1020. The laboratory to accompany BSC 1020.

BSC 1030 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 1030L AS-BIOL 1(0,2)
Biology and Environment Laboratory: CR: BSC 1030. The laboratory to accompany BSC 1030.

BSC 2010C AS-BIOL 4(3,2)
General Biology: PR: High school biology or C.I. 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.

BSC 2011C AS-BIOL 4(3,3)
Biological Diversity: PR: BSC 2010C. Introduction to botany and zoology. Structure, function, and representative groups of plants and animals. Open only to students whose major requires this specific course.

BSC 3404C HPA-M&M 4(2,4)
Quantitative Biological Methods: PR: BSC 2010, MCB 3020C, CHM 2046. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation.

BSC 4103 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.

BSC 4401L AS-BIOL 1-4(0,3-12)
Biological Laboratory Techniques: PR: PCB 3043, CHM 2210, or C.I. Course will provide individual and small group instruction in current laboratory techniques used in Biology that are beyond the scope of typical Biology laboratories. Literature searches and hands-on practice of techniques will be stressed. May be repeated one time for credit.

BSC 5034 AS-BIOL 3(3,0)
Biological Laboratory Techniques: PR: C.I. Biological concepts applied to current human problems food production, pollution, diseases, energy, life support systems, and natural ecosystems. Designed for teachers.

BSC 5408L AS-BIOL 3(0,9)
Advanced Biological 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.

BSC 5937 AS-BIOL 1(0,4)
Trends in Marine Biology: PR: C.I. This course is presented at Sea World and each term will focus on a single topic relating to marine biology. The course requires weekend trips. May be repeated for credit.

BSC 5939 AS-BIOL 3(3,0)
Biological Laboratory Techniques: PR: C.I. Biological concepts applied to current human problems food production, pollution, diseases, energy, life support systems, and natural ecosystems. Designed for teachers.

BTE 4410 ED-IP 4(4,0)
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.

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 ethical consideration. (Not open to Accounting majors).

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.

BUL 4540 BA-MAN 3(3,0)

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.

CAP 4020 AS-COMP 3(3,0)
Digital Media: PR: COP 3530CC 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.

CAP 4021 AS-COMP 3(3,0)
Building Virtual Worlds: PR: COP 3530CC 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.

CAP 4453 AS-COMP 3(3,0)
Robot Vision: PR: COP 3530CC 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.

CAP 4630 AS-COMP 3(3,0)

CAP 4702 AS-COMP 3(3,0)
Seminar in Digital Arts: PR: ENC 1102, CGS 1060C, Humanities related course, Technology related arts course, or C.I. A study of a variety of digital technologies from various disciplines in the CREAT program. Production of small projects using technology.

CAP 5415 AS-COMP 3(3,0)
Computer Vision: PR: COP 3530CC. Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation.

CAP 5610 AS-COMP 3(3,0)

CAP 5636 AS-COMP 3(3,0)

CAP 5725 AS-COMP 3(3,0)
Computer Graphics Systems I: PR: COP 3530C or equivalent. Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems.

CBH 3003 AS-PSYCH 3(3,0)
Comparative Psychology: PR: PSY 2013. A study of comparative behaviors of lower animals.

CCE 4004 EN-CHE 3(3,0)
Construction Engineering I: PR: EGN 3331 and CEE 4101C. Building construction, materials and types of construction, soils in construction and handbook applications in the field of construction engineering. Also form work design.

CCE 4034 EN-CHE 3(3,0)
Construction Management: PR: Senior standing and EGN 3613. To provide students with the basic understanding of concepts of constructability, project management and methodologies for implementing them. May be repeated for credit.

CCJ 3014 HPA-CJ 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 3(3,0)
Criminal Justice System: An examination of the components and of their interdependence in light of their traditional autonomy.

CCJ 3123 HPA-CJ 3(3,0)

CCJ 3204 HPA-CJ 3(3,0)
Criminal Law in Action: Basic concepts of criminal law: elements of major crimes, criminal responsibility, defenses, and parties to crime.

CCJ 3290 HPA-CJ 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.

CCJ 3306 HPA-CJ 3(3,0)

CCJ 3321 HPA-CJ 3(3,0)
Community-Based Corrections: PR: CCJ 3024 and CCJ 3306 or C.I. An overview and analysis of correction interventions and treatment programs in the community.
CCJ 3450 HPA-CJ 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 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 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 3667 HPA-CJ 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 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 4100 HPA-CJ 3(3,0)
Criminal Investigation: PR: CCJ 4105. Course acquaints students with basic Procedures used in Criminal investigations, purpose of investigations, and ingredients for successful investigations.

CCJ 4105 HPA-CJ 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.

CCJ 4140 HPA-CJ 3(3,0)
Community Policing: PR: CCJ 3014, CCJ 4105. The viability of community policing. The theoretical basis for community interventions are related to the daily operations required by community policing.

CCJ 4233 HPA-CJ 3(3,0)
Legal Aspects of Policing: PR: CCJ 4105. The legal dimensions of various police decision-making stages; including stops and frisks; arrests; searches and seizures; wiretapping; and, interrogations.

CCJ 4270 HPA-CJ 3(3,0)
Legal Aspects of the Criminal Court Process: PR: CCJ 3290. The legal dimension of various criminal court decision making stages, including: bail; charging; preliminary hearing; grand jury; pretrial hearings; plea hearings; trial; and, sentencing.

CCJ 4305 HPA-CJ 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.

CCJ 4361 HPA-CJ 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 3(3,0)
Policy Development in Law Enforcement: PR: CCJ 4105. 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 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 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 4486 HPA-CJ 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 4540 HPA-CJ 3(3,0)
Delinquency Control: PR: CCJ 3024 and CCJ 3290 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices.

CCJ 4630 HPA-CJ 4(4,0)
Comparative Justice Systems: PR: CCJ 3024 and CCJ 3290 or C.I. A survey of contemporary foreign criminal justice and differences emerging from various political, cultural, and legal systems.

CCJ 4641 HPA-CJ 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 4651 HPA-CJ 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 3(3,0)
Terrorism: PR: CCJ 3024 and CCJ 4105 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 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 3(3,0)

CCJ 4701 HPA-CJ 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 4907H HPA-CJ 3(3,0)
Criminal Justice Research Methods Honors: PR: CCJ 3024. 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. Honors level content.

CCJ 4941 HPA-CJ 6-9(0,12-3)
Criminal Justice Internship: PR: C.I. Internship in municipal, county, state or...
federal criminal justice agency. Includes assignments in police, courts, corrections components.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5015</td>
<td>HPA-CJ</td>
<td>The Nature of Crime</td>
<td>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.</td>
</tr>
<tr>
<td>CCJ 5105</td>
<td>HPA-CJ</td>
<td>Foundations of Law Enforcement</td>
<td>Provides an overview of correctional processes in the U.S., including philosophical foundations and contemporary practices.</td>
</tr>
<tr>
<td>CCJ 5406</td>
<td>HPA-CJ</td>
<td>Research Methods in Criminal Justice</td>
<td>Examines the administration of criminal justice and a critical analysis of formal and informal processing of offenders by criminal justice agencies.</td>
</tr>
<tr>
<td>CCJ 5467</td>
<td>HPA-CJ</td>
<td>Justice and Safety System Manpower</td>
<td>Processes essentials to administration to human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel.</td>
</tr>
<tr>
<td>CCJ 5704</td>
<td>HPA-CJ</td>
<td>Research Methods in Criminal Justice</td>
<td>An examination of the philosophy and techniques of research as applied in the Criminal Justice field.</td>
</tr>
<tr>
<td>CDA 4150</td>
<td>AS-COMP</td>
<td>Computer Architecture</td>
<td>Basic processor design, hardwired and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic.</td>
</tr>
<tr>
<td>CDA 5106</td>
<td>AS-COMP</td>
<td>Advanced Computer Architecture I</td>
<td>Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O.</td>
</tr>
<tr>
<td>CDA 5110</td>
<td>AS-COMP</td>
<td>Parallel Architecture and Algorithms</td>
<td>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.</td>
</tr>
<tr>
<td>CDA 5215</td>
<td>AS-COMP</td>
<td>Architecture and Design of VLSI</td>
<td>Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system.</td>
</tr>
<tr>
<td>CDA 5704</td>
<td>AS-COMP</td>
<td>Geotechnical Engineering II</td>
<td>Geotechnical applications to subsurface environmental contaminant transport, geosynthetics and stability of landfill design, control of contaminated sites.</td>
</tr>
<tr>
<td>CDA 5904</td>
<td>AS-COMP</td>
<td>Software Engineering</td>
<td>Seminar covering major historical developments in civil engineering.</td>
</tr>
<tr>
<td>CEG 4100</td>
<td>EN-CEE</td>
<td>Structural Analysis I</td>
<td>Topics in structural mechanics, energy methods, analysis of determinate and indeterminate structures by flexibility, stiffness and methods.</td>
</tr>
<tr>
<td>CEG 4101</td>
<td>EN-CEE</td>
<td>Structural Analysis II</td>
<td>Special structures; introduction to matrix structural analysis, dynamic loads including wind and earthquake.</td>
</tr>
<tr>
<td>CEG 4130L</td>
<td>EN-CEE</td>
<td>Structures Laboratory</td>
<td>Laboratory exercises on the behavior of structures and structural materials.</td>
</tr>
<tr>
<td>CES 4605</td>
<td>EN-CEE</td>
<td>Steel Structures</td>
<td>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.</td>
</tr>
<tr>
<td>CES 4608C</td>
<td>EN-CEE</td>
<td>Steel Design</td>
<td>Project course on design of steel components, connections, and frame structures using AISC specifications.</td>
</tr>
<tr>
<td>CES 4702</td>
<td>EN-CEE</td>
<td>Reinforced Concrete Structures</td>
<td>PR:</td>
</tr>
</tbody>
</table>
CET 4427 EN-ENT 3(3,0)
Applied Database I: PR: CET 3383.
Design and implementation of data base systems within the concept of central administration, structured data storage. Programming project.

CET 4505 EN-ENT 3(3,0)

CET 4915C EN-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 EN-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 EN-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 EN-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 EN-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.

CGN 5320C EN-CEE 3(2,2)
Geographic Information systems: Programming theory and application of Geographic Information Systems to Civil Engineering projects.

CGN 5504C EN-CEE 3(2,2)
Civil Engineering Materials: PR: EGN 3365C, 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 EN-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 AS-COMP 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 AS-COMP 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 AS-COMP 3(2,1)

CGS 2516C AS-COMP 1(2,1)
Spreadsheet Concepts I: PR: CGS 1060C. The history, features, design, and commands of the spreadsheet environment. File handling data entry and editing summary of command and built-in functions. Formatting, order of evaluation.

CGS 2517C AS-COMP 1(2,1)
Spreadsheet Concepts II: PR: CGS 2516C. The spreadsheet ranges, graphics, linking sheets (spreadsheets and others), and basic and intermediate macros.

CGS 2518C AS-COMP 1(2,1)
Spreadsheet Concepts III: PR: CGS 3517C. Advanced macros, database facilities, linkages to other decision making tools, and algorithmic issues.

CGS 2540C AS-COMP 1(2,1)
Database Concepts I: PR: CGS 1060C. The relational model using current software, logical and physical data structures, data concepts and modeling conceptual database design. Implementation and physical design relational database language fundamentals.

CGS 2541C AS-COMP 1(2,1)

CGS 2542C AS-COMP 1(2,1)

CGS 2580C AS-COMP 1(2,1)
Word Processor Concepts: PR: CGS 1060C. The history, features, design and commands of Windows environment word processor N text entry and editing summary of command and built-in functions, dictionaries and thesaurus, and formatting and report control.

CGS 2581C AS-COMP 1(2,1)

CGS 2582C AS-COMP 1(2,1)

CGS 3106 AS-COMP 3(3,0)

CGS 3163 AS-COMP 1(1,0)

CGS 3164 AS-COMP 1(1,0)
Distributed Computing Concepts II: PR: CGS 3163. Computer Supported Cooperative Work groups (CSCW) and distributed databases.

CGS 3170C AS-COMP 1(2,1)
Internet Applications I: PR: CGS 1060C. Development of the Internet; Internet applications including e-mail, FTP, www.

CGS 3171C AS-COMP 1(2,1)

CGS 3266 AS-COMP 1(1,0)
Computer Architecture Concepts I: PR: CGS 1060. Systems architecture including: CPU organization bus architecture, bus architecture, I/O and memory system and graphics, via a detailed study of one selected computer system.

CGS 3267 AS-COMP 1(1,0)

CGS 3268 AS-COMP 1(1,0)

CGS 3280C AS-COMP 1(2,1)

CGS 3281C AS-COMP 1(1,0)

CGS 3282C AS-COMP 1(1,0)
Computer Networks Concepts III: PR: CGS 3281C. Advanced network topics including SONET, ATM and Mobile
MGF study of the fundamental concepts of General Chemistry: chemistry, primarily oriented toward elementary Chinese language and civilization to provide insight into the significant role that chemistry plays in our culture.

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 2045 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(3,1) Honors Chemistry Fundamentals I: PR: High school chemistry and admission to University Honors Program. Same as CHM 2045 with honors-level content.

CHM 2046 AS-CHEM 3(3,0) Chemistry Fundamentals II: PR: CHM 2045. Continuation of CHM 2045.

CHM 2046H AS-CHEM 3(3,0) Honors Chemistry Fundamentals II: PR: CHM 2045H. Same as CHM 2046 with honors-level content.

CHM 2046L AS-CHEM 1(0,3) Chemistry Fundamentals Laboratory: CR: CHM 1032 or CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry.

CHM 2046LH AS-CHEM 1(0,3) Honors Chemistry Fundamentals Lab: PR: CHM 2045H and CR: CHM 2046H. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content.

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.


CGS 3422 AS-COMP 3(3,0) Programming and Numerical Methods: CR: MAC 2312. Programming with a high-level language (e.g., FORTRAN), I/O, formatting and manipulation of one and two-dimensional arrays, with emphasis on numerical problems. Not open to Computer Science Majors.

CGS 3761 AS-COMP 1(1,0) Operating Systems Concepts I: PR: CGS 1060. A study of operating systems concepts including: file structures, virtual memory, process context information and process scheduling.

CGS 3762 AS-COMP 1(1,0) Operating Systems Concepts II: PR: COP 3761. A detailed comparison of operating systems including UNIX Microsoft Windows, Windows NT and MVS.

CGS 4140 AS-COMP 3(3,0) Computerized Health Information Systems: PR: CGS 2100C or equivalent. Analysis of computerized health information systems, with emphasis upon the design and implementation phases. On-site visitations of several local computerized health information systems. Not open to Computer Science majors.

CGS 5310 ED-EPE 3(3,0) Computer-Based Educational Systems: PR: COP 4020 or equivalent. The design and implementation of computer-based educational systems. Selected projects using high-level programming languages.

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.


CHM 1020 AS-CHEM 3(3,0) Concepts in Chemistry: PR: MAC 1104 or MGF 1203. 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 1104, MGF 1203 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward COH and PA majors.


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 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 IV: 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 4930 AS-CHEM 1(1,0) Undergraduate Chemistry Seminar: PR: CHM 3411. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar.


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 5451L AS-CHEM 2(0,6) Polymer Chemistry Laboratory: PR: CHM 2211 AND CHM 3410. A laboratory course designed to introduce students to the major polymerization mechanisms. Polymer synthesized in the laboratory will be characterized using modern instrumental methods.


CHM 5711 AS-CHEM 2(2,0) The Chemistry of Materials: PR: CHM 2211, CHM 4130C, and CHM 3411. Structure and properties of commercial products, with an emphasis on the correlation between molecular form and the functional properties deemed desirable for the product.

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, equilibrium, electrochemistry and thermodynamics.

CHS 3501 AS-CHEM 3(3,0) Introduction to Forensic Science: Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab).

CHS 3505C AS-CHEM 3(1,6) Forensic Microscopy: PR: CHM 2046 or C.I. The study of the polarized light microscope and its use in the identification and comparison of trace evidence.

CHS 3511C AS-CHEM 3(1,6) Trace Evidence: PR: CHS 3505. An advanced study of the techniques used to identify and compare trace evidence.

CHS 3530C AS-CHEM 3(1,6) Forensic Analysis of Controlled Substances: PR: CHM 3120C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances.

CHS 3533C AS-CHEM 3(2,3) Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings.

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 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 4534C AS-CHEM 3(1,6) Forensic Serology: Classical Methods: PR: CHS 3533C and CR: BCH 4053, BCH 4054, and BCH 4103L. A review of the sample recovery techniques and molecular procedures (RFLP/PCR) used to evaluate biological samples for testimony in court.

CHS 4541C AS-CHEM 2(1,3) Fire and Debris Analysis I: 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.

CHS 4591 AS-CHEM 6(0,4) Forensic Science Internship: PR: C.I. Credit for full-time work (15 weeks; 600 hours) for a professional forensic laboratory. This course may be repeated for credit.

CHS 5241 AS-CHEM 2(2,0) Chemical Dynamics II: PR: CHS 5240. Continuation of CHS 5240.

CHS 5250 AS-CHEM 2(2,0) Chemical Synthesis I: PR: CHM 2211, and 3411; or equivalent. Survey of chemical synthesis from the standpoint of planning the synthesis, intermediates, special techniques, protection of functional groups, experimental design and optimization of reaction conditions.

CHS 5262 AS-CHEM 2(2,0) Industrial Chemical Processes: PR: CHM 3211 and 3411. Familiarization with basic considerations of large-scale inorganic and organic chemical manufacturing techniques, raw materials, and the petrochemical industry.

CIS 2321 AS-COMP 3(3,0) Data Processing Systems Analysis and Design: PR: Computer Science Major or C.I. and COP 3530C. Data organization; physical storage; database system architecture. Students participate in the design of a data processing system.

CIS 4322 AS-COMP 3(3,0) Data Processing Systems Implementation: PR: Computer Science Major or C.I. and CIS 2321. System implementation project. Students experience the task of implementing a large computing system.
**Concepts of assembly language.**

Design and passing score on foundation exam. CR:

**Systems Software:**


**Object-Oriented Paradigms:**

Object-oriented analysis and design methods combine with Ada-based implementation, testing, techniques, team oriented project management.

**Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms.**

**Projects in Parallel and Distributed Processing:** PR: COP 4520. Research and projects related to emerging architectures, computational models, languages and environments for parallel and distributed computation.

**Operating Systems:** PR: COP 3530CC. The function and organization of operating systems, process management, virtual memory, and file management.

**Database Systems:** PR: COP 3530CC. Storage and access structures, database models and languages, related database design, and implementation techniques for database management systems.

**Software Tools:** PR: COP 4600 and COP 5021. Systems programming languages, concurrent programming, design and implementation of software development/maintenance tools. A large programming project is required.

**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.

**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.

**Introduction to Discrete Structure:** PR:
Computational Methods/ Applications: COT 5507 AS-COMP 3(3,0) PR: COT 4500.

Properties, decision problems. LR(K) algorithm design and performance. Time conquer, greedy, etc. Data Structures and algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis.


COT 4210 AS-COMP 3(3,0) Discrete Computational Structures: PR: Admission to major or C.I., and COT 3100, MAC 3312. Review of discrete structures, introduction to automation theory, computational complexity, analysis of algorithms, computability theory, and formal languages.


COT 4810 AS-COMP 3(3,0) Topics in Computer Science: PR: COP 3530 and COP 3402. A range of topics from the field of computer science; application of oral and written communication skills; social, ethical, and moral issues of computing.

COT 5310 AS-COMP 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.

COT 5405 AS-COMP 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.

COT 5507 AS-COMP 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.

COT 5510 AS-COMP 3(3,0) Computational Methods/Linear Systems: PR: COT 4500 and MAS 3113. Mathematical models for linear systems, linear programming, the simplex method, integer and mixed-integer programming, introduction to nonlinear optimization and linearization.

COT 5520 AS-COMP 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 3034 AS-POLS 3(3,0) Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations.

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.

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.

CPO 3132 AS-POLS 3(3,0) Canadian Studies: A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy.

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.

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.

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.

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.

CPO 4133 AS-POLS 3(3,0) Government & Politics of Canada: Examines the origins and development of Canadian government. Focuses on the functioning of federalism, nationality politics, foreign policy, and relations with the United States.

CPO 4134 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.

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.

CRT 4931 EN-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.

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.

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.

CRW 2300 AS-ENG 3(3,0) Theory and Practice of Poetry Writing: PR: CRW 3013, English or English major, Junior standing, or C.I. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism.

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.

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.

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.

CRW 3310 AS-ENG 3(3,0)
Poetry Writing Workshop: PR: CRW 3013, CRW 2300 and Junior standing. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory.

CRW 3311 AS-ENG 3(3,0)

CRW 3410 AS-ENG 3(3,0)
Writing Scripts: PR: CRW 3013 and Grammar Proficiency Exam. Theory and practice of writing scripts for film and TV.

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.

CRW 4114 AS-ENG 3(3,0)

CRW 4122 AS-ENG 3(3,0)
Advanced Fiction Writing Workshop: PR: CRW 2100. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4123 AS-ENG 3(3,0)
Science Fiction Writing: Study of 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). A study of advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism.

CRW 4320 AS-ENG 3(3,0)
Advanced Poetry Writing Workshop: PR: CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4420 AS-ENG 3(3,0)

CRW 5020 AS-ENG 3(3,0)
Graduate Writers' Workshop: Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher.

CRW 5932 AS-ENG 3(2,1)
Teaching Creative Writing: PR: C.I. Creative writing practicum. May be repeated for credit.

CWR 3201 EN-CEE 3(3,0)

CWR 4101C EN-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 EN-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 EN-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 5205 EN-CEE 3(3,0)

CWR 5545 EN-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 2000 AS-THEA 3(2,2)
Theatre Dance: PR: DAA 2200 & 3201 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 2100 AS-THEA 3(2,2)
Theatre Modern Dance: PR: DAA 2200 & 3201 or C.I. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures.

DAA 2200 AS-THEA 3(2,2)
Theatre Dance I: Fundamentals of Classical Ballet; includes practical class work as well as Dance History lectures.

DAA 2201 AS-THEA 3(2,2)
Intermediate Classical Ballet: PR: DAA 2200 or C.I. In-depth study of classical ballet technique, including principles, theory, and practice technique.

DAA 2500 AS-THEA 3(2,2)
Intermediate Jazz Dance: PR: DAA 2200 or C.I. Introduction of the basic movements of American Jazz Dance, including practical class work as well as Jazz Dance history.

DAA 2501 AS-THEA 3(2,2)
Advanced Jazz Dance: PR: DAA 2200 & DAA 2500 or C.I. In-depth study of Jazz Dance as a major style of dance, using theory and practice in jazz technique.

DAA 2600 AS-THEA 3(2,2)
Theatre Tap Dance: Exploration of form, style, and technique in the basic fundamental movements of tap dance. May be repeated for credit.
DAA 2710 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-EPE 3(1,2)
Dance and Rhythmic: The development of skill proficiency and instructional strategies in rhythmic and dance techniques, and fundamental movement patterns for grades K-12.

DEP 2004 AS-PSYCH 3(3,0)

DEP 3202 AS-PSYCH 3(3,0)
Psychology of Exceptional Children: PR: PSY 2013. 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 2013. 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 function.

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 3704 AS-PSYCH 3(3,0)

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 EN-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 EN-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 EN-MMAE 3(2,3)

EAS 3530 EN-MMAE 3(3,0)

EAS 3800C EN-MMAE 3(2,3)

EAS 3810C EN-MMAE 2(1,3)
Design of Aerospace Experiments: PR: EAS 3800C and EML 3701. Extension of EAS 3800C. Design of experiments in aeronautical/aerospace systems with emphasis on project team activity.

EAS 4105 EN-MMAE 3(3,0)

EAS 4134 EN-MMAE 3(3,0)
High-Speed Aerodynamics: PR: EAS 3101. 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 EN-MMAE 3(3,0)

EAS 4210 EN-MMAE 3(3,0)

EAS 4300 EN-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 EN-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 EN-MMAE 3(3,0)

EAS 4700C EN-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 EN-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 EN-MMAE 3(3,0)

EAS 5157 EN-MMAE 3(3,0)
VTOL Aerodynamics and Performance: PR: EAS 4105; CR: EML 5060. Momentum theory, blade element theory,
aggregate economic conditions; their role in allocating consumer
and producer goods and in distributing
an open and international economics.

ECM 5135 EN-ECE 3(3,0)
Engineering Math Analysis I: PR: MAP 2302. Topics in advanced engineering
mathematics, including systems of differential equations, phase plane, linear
algebra, and vector differential calculus.

ECM 5741C EN-ECE 3(2,3)
Microcomputer-based Monitoring and
Control Systems: PR: EEL 3342; EEL 4767C or C.I. Machine language
programming; software development aids; systems design; interfacing considerations.

ECO 2013 BA-ECON 3(3,0)
Principles of Economics I: 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 Honor Students only. Same as
ECO 2013 with honors-level content.

ECO 2023 BA-ECON 3(3,0)
Principles of Economics II: 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 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

ECO 3401 BA-ECON 3(3,0)
Quantitative Business Tools I: PR: ECO 2013, 2023, MAC 1104. 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 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)
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. Concept 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 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. Grade is "S" or
"U".

ECO 5005 BA-ECON 3(3,0)
Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro
and macro economic analysis.

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)
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 3433 BA-ECON 3(3,0)
characteristics and governmental regulation
of public carriers. Consideration of
competitive relations between modes of
transportation and criteria for public
investment in transportation and criteria of
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECP 4403</td>
<td>Business, Government, and Industrial Organizations: PR: ECO 2013 and ECO 2023. Analysis of the location, organization, and problems of urban and regional economic activities.</td>
<td>3(3,0)</td>
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<tr>
<td>ECP 4603</td>
<td>Urban and Regional Economic Problems: PR: ECO 2013 and ECO 2023. Analysis of the location, organization, and problems of urban and regional economic activities.</td>
<td>3(3,0)</td>
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<tr>
<td>ECP 4703</td>
<td>Managerial Economics: PR: Junior standing; ACG 2071 or ACG 2023, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation.</td>
<td>3(3,0)</td>
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<tr>
<td>ECS 4003</td>
<td>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 economies. Emphasis is placed on performance criteria and economic modeling.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>ECS 4013</td>
<td>Economic Development: PR: ECO 2013 and ECO 2023. The study of problems, theories, and issues of economic development with reference to the third world.</td>
<td>3(3,0)</td>
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<tr>
<td>ECS 4203</td>
<td>The Economies of the Pacific Rim: PR: ECO 2013 and ECO 2023. A study of the &quot;Asian Economic Miracle&quot; examining the relationship between public policies, human resource development, and rapid shared growth.</td>
<td>3(3,0)</td>
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<tr>
<td>ECS 4231</td>
<td>Japanese Prosperity: A Study of Human Resource Development: PR: Honors Students. ECO 2013 or ECO 3023 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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>ECS 4303</td>
<td>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).</td>
<td>3(3,0)</td>
</tr>
</tbody>
</table>
EDG 2701 ED-EDF 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-EDF 3(3,0)
Professional Teaching Practices: PR: EDF 2283, Junior Standing or C.I. Analysis of teaching strategies for K-12 settings, including higher order thinking, alternative assessment and adaption of instruction for diverse student populations.

EDG 4324 ED-EDF 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-EDF 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 5325 ED-EDF 3(3,0)
Techniques for the Developing Professional in Education: PR: C.I. Analysis, study, development, and use of techniques for enhanced instruction in the educational setting.

EDG 5337 ED-EDF 3(3,0)
Teaching Individuals, Small and Large Groups: PR: C.I. Study of teaching skills for effectively instructing individuals in various educational groups, with consideration of developmental and behavioral characteristics of students.

EDG 5745 ED-EDF 3(3,0)
Teaching the Non-English Student: PR: FLE 3063 or C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language.

EDG 5941 ED-EDF 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.

EDM 5235 ED-EDF 3(3,0)
Teaching in the Middle School: Methods of middle school teaching; team planning and teaching; developmental and learning patterns of the emerging adolescent; use of alternative teaching strategies.

EDS 5356 ED-EDS 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-IP 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 2301 ED-IP 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 3268 ED-IP 3(3,0)
Play Development: Explores play development, facilitation, intervention and assessment. Designing play environments is emphasized.

EEC 3610 ED-IP 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-IP 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-IP 1-2(0,1-2)
Integration Internships: Field based placement in which the students will have supervised practice integrating course content areas.

EEC 4271 ED-IP 3(3,0)
Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers.

EEC 4402 ED-IP 3(3,0)
Cultural and Family Systems: Explores the institution of family in its cultural context as a living dynamic system.

EEC 4510 ED-IP 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-IP 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-IP 3(3,0)
Guidance of Young Children: PR: EEC 3610. Provides students with techniques to guide the behavior of young children.

EEC 4731 ED-IP 3(3,0)
Health, Safety, and Nutrition for Young Children: PR: EDF 3740. 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-IP 2(2,0)

EEC 4943 ED-IP 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-IP 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-IP 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-IP 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-EPE  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-EPE  4(4,0)
Introduction to the Emotionally Disturbed: PR: Senior standing. Development and practice of appropriate cognitive, affective, and motor strategies for selected categories, levels, and degrees of severity of exceptional population.

EED 4210  ED-EPE  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-EPE  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 3122C  EN-ECE  4(3,3)

EEL 3306  EN-ECE  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  EN-ECE  4(3,3)

EEL 3342C  EN-ECE  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  EN-ECE  3(3,0)
Electromagnetic Fields: PR: EEL 3122 and MAP 2302. Introduction to electric and magnet fields and electromagnetic waves.

EEL 3552C  EN-ECE  4(3,3)

EEL 3657  EN-ECE  3(3,0)

EEL 3801C  EN-ECE  3(2,3)
Introduction to Computer Engineering: PR: Knowledge of a high level programming language. CR: EEL 3342C. Introduction to the field of computer engineering. The course covers the C Language, basic computer organization, and an introduction to assembly language programming.

EEL 4140C  EN-ECE  4(3,3)
Analog Filter Design: PR: EEL 3307C, EEL 3122. Passive and active analog filter design. May be repeated for credit.

EEL 4205  EN-ECE  3(3,0)

EEL 4216  EN-ECE  3(3,0)
Fundamentals of Electric Power Systems: PR: EEL 3122 or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, transmission lines.

EEL 4309C  EN-ECE  4(3,3)
Electronics II: PR: EEL 3307C, EEL 3342C. Ideal Op-Amps and applications. Introduction to Logic Circuits; Bipolar, MOS and CMOS families; Flip-flops and memory cells, comparators and timing circuits; A/D and D/A converters.

EEL 4314  EN-ECE  3(3,0)

EEL 4436C  EN-ECE  4(3,3)
Microwave Engineering: PR: EEL 3470. Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements. May be repeated for credit.

EEL 4440  EN-ECE  3(3,0)
Optical Engineering: PR: EEL 3470, EEL 3552C or C.I. Lens systems, aberrations, sources, radiometry, detectors, physical optics, interferometer devices, applications to engineering design problems.

EEL 4512C  EN-ECE  4(3,3)
Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise.

EEL 4515C  EN-ECE  4(3,3)

EEL 4612  EN-ECE  3(3,0)
Introduction to Modern and Robust Control: PR: EEL 3657. Classical control theory including differential equations and Laplace transform techniques, stability analysis, and classical frequency domain design.

EEL 4635C  EN-ECE  4(3,3)
Computer Control Systems: PR: EEL 3657. Discrete-time systems, the z-transform, and single loop computer control systems. Digital simulation in the analysis and design of processes with embedded computers. No graduate credit for both EEL 5630 and this course.

EEL 4750  EN-ECE  3(3,0)

EEL 4765C  EN-ECE  4(3,3)

EEL 4767C  EN-ECE  4(3,3)
Computer System Design I: PR: EEL 3342C and EEL 3801C. Basic computer organization and design. Computer...
performance metrics, introduction to processor, memory and I/O organization and design. Assembly language programming and microprocessor based design.

EEL 4768C EN-ECE 4(3,3) Computer System Design II: PR: EEL 4767C. Continuation of EEL 4767C. Control and datapath design using a hardware description language, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC.


EEL 4783C EN-ECE 3(2,3) Computer-Aided Engineering Design: PR: ECM 4884 and EEL 4768C or C.I. Review of currently available CAE tools for digital hardware and software design applications.

EEL 4791 EN-ECE 3(2,4) Telemetry and Space Computer Systems: PR: EEL 3352 and EEL 3801, EEL 3657, EEL 3307, EEL 3470. Telemetry and computer sub-systems are discussed as they are implemented in the space-launch system “inertial upper stages.”

EEL 4811 EN-ECE 3(3,0) Parallel Processing and Artificial Neural Networks: PR: EEL 4767C and EEL 3801C. Overall of parallel processing approaches and architectures with emphasis towards concurrent neural network simulation.

EEL 4832 EN-ECE 3(3,0) Engineering Applications of Computer Methods: PR: MAP 2302, STA 3032, EGN 3420. Engineering applications of numerical methods, including solution of differential equations, simulation, optimization, and multidimensional root-finding, integration and series approximations.

EEL 4851C EN-ECE 4(3,3) Engineering Data Structures: PR: EEL 3801C. Design of data structures and algorithms, with emphasis on performance analysis, memory organization, stacks, queues, linked lists, trees, graphs, searches, and sorts. Introduction to object-oriented structures.

EEL 4872 EN-ECE 3(3,0) Engineering Applications of Intelligent Systems: PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures.

EEL 4882 EN-ECE 3(3,0) Engineering Systems Software: PR: EEL 4851 and EEL 4767. Introduction to operating systems concepts and facilities for engineering applications, including multiprogramming, resource allocation and management, systems utilities, and operating system implementation.

EEL 4884C EN-ECE 4(3,3) Engineering Software Design: PR: EEL 4851C. Software systems development life cycle, function and object-oriented methodologies, CASE; Analysis, design, and development of a large software project.

EEL 4914 EN-ECE 3(2,1) Senior Design I: PR: EEL 3307, EEL 3657, and EEL 3552. 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 EN-ECE 3(0,3) Senior Design II: PR: EEL 4914. Execution of electrical and computer engineering project including complete project design review, construction, testing, and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort, and final report.


EEL 5322C EN-ECE 3(2,1) Thin Film Technology: PR: EEL 3306 or equivalent. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices.

EEL 5352 EN-ECE 3(3,0) Semiconductor Material and Device Characterization: PR: EEL 3306 or C.I. Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films.

EEL 5353 EN-ECE 3(3,0) Semiconductor Device Modeling and Simulation: PR: EEL 3307. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included.

EEL 5355C EN-ECE 4(3,3) Fabrication of Solid-State Devices: PR: EEL 3306. Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology.

EEL 5357 EN-ECE 3(3,0) CMOS Analog and Digital IC Design: PR: EEL 3306 and EEL 4309. 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 5432 EN-ECE 3(3,0) Satellite Remote Sensing: PR: EEL 3470, EM fields, 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 EN-ECE 3(3,0) Microwave Circuits and Devices: PR: EEL 4436 or EEL 5555C. Planar transmission lines, passive microwave circuits, active circuit design using Gunn, IMPATT, FETS, RTDS, etc.: microwave integrated circuits.

EEL 5441 EN-ECE 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.

EEL 5448 EN-ECE 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.

EEL 5450C EN-ECE 3(2,1)
Thin Film Optics: PR: PHY 4424 or EEL 4440 and EEL 5441 or EEL 5451. Principles of thin film optics and its applications in optical, electro-optical, and laser systems.

EEL 5451L EN-ECE 3(1,4)
Electro-Optics Laboratory: PR: EEL 4440 or EEL 5441 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics.

EEL 5453 EN-ECE 3(3,0)

EEL 5462C EN-ECE 3(3,1)
Antenna Analysis and Design: PR: EEL 3470 or equivalent. Fundamentals of antennas; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas.

EEL 5513 EN-ECE 3(3,0)
Digital Signal Processing Applications:
PR: EEL 4750. The design and practical consideration for implementing Digital Signal Processing Algorithms including Fast Fourier Transform techniques, and some useful applications.

EEL 5517 EN-ECE 3(3,0)
Surface Acoustic Wave Devices and Systems: PR: EEL 3552C. Course discusses SAW technology which includes the physical phenomenon, transducer design and synthesis, filter design and performance parameters. Actual devices and communication systems are presented.

EEL 5542 EN-ECE 3(3,0)

EEL 5547 EN-ECE 3(3,0)

EEL 5555C EN-ECE 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 5563 EN-ECE 3(3,0)

EEL 5630 EN-ECE 3(3,0)

EEL 5704 EN-ECE 3(3,0)
Computer Aided Logical Design: PR: EEL 4767C. Design, analysis and synthesis of sequential logic circuits and systems. Data path and controller design using a hardware description language.

EEL 5708 EN-ECE 3(3,0)

EEL 5741C EN-ECE 3(2,3)
Microcomputer-based Monitoring and Control Systems: PR: EEL 3342, EEL 4767C, or C.I. Machine language programming; software development aids; systems design; interfacing considerations.

EEL 5762 EN-ECE 3(3,0)

EEL 5771C EN-ECE 3(2,3)
Engineering Applications of Computer Graphics: PR: EGN 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments.

EEL 5820 EN-ECE 3(3,0)
Image Processing: PR: MAP 2302, EGN 3420, EEL 4750 or C.I. Two-dimensional signal processing techniques; pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques.

EEL 5825 EN-ECE 3(3,0)
Pattern Recognition: PR: MAP 2302, EGN 3420. Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum decision criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions.

EEL 5874 EN-ECE 3(3,0)
Expert Systems and Knowledge Engineering: PR: EEL 4872 or C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented.

EEL 5881 EN-ECE 3(3,0)
Software Engineering I: PR: EGN 3420, EEL 4851 or C.I. Design, implementation, and testing of computer software for Engineering applications.

EEL 5891 EN-ECE 3(3,0)
Continuous System Simulation I: PR: EEL 3657 or C.I. Use of state-space techniques, numerical integration, and CSSSL programs. Laboratory assignments.

EES 4111C EN-CEE 3(2,3)

EES 4202C EN-CEE 3(2,3)
Chemical Process Control: PR: EGN 3704. 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 4401C EN-CEE 3(2,2)
Environmental Health: PR: EGN 3704. Topics and design examples in industrial hygiene, occupational and radiological health hazards, and pollution effects, such
as those due to air noise, solid wastes, etc.

EES 5415C EN-CEE 3(2,3) 
Potable Water Treatment: PR: EES 4202C and 4111C. Engineering application of potable water chemistry involving coagulation, softening, filtration, corrosion, disinfection quality and drinking water.

EES 5605 EN-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 EN-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 EN-ENT 4(3,2) 

EET 3143C EN-ENT 4(3,2) 

EET 4329C EN-ENT 4(3,2) 

EET 4339C EN-ENT 3(2,2) 

EET 4349C EN-ENT 3(2,2) 
Electronic Communications II: PR: EET 4329C. Basic information theory, pulse and digital concepts, multiplexing, radar principles, TV systems. Technology of radiation and propagation. Fiber optics.

EET 4389C EN-ENT 3(2,2) 

EET 4518C EN-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 4548 EN-ENT 3(3,0) 
Power Systems: PR: EET 3716. 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 EN-ENT 4(3,2) 

EET 4915C EN-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-EPE 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-EPE 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-EPE 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-EPE 4(4,0) 
Methods for Academic Skills for Exceptional Students: Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken with or before Internship I.

EEX 3243 ED-EPE 3(3,1) 
Techniques for Exceptional Adolescents: PR: 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-EPE 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-EPE 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 4003 ED-EPE 3(3,0) 

EEX 4601 ED-EPE 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 4753 ED-EPE 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 5051 ED-EPE 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-EPE  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-EPE  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.

EGC 5036  ED-EDS  3(3,0)
Guiding Human Relationships: PR:
Senior standing or basic teacher certificate.
Human relationship skills which will
enhance intra- and interpersonal relation
skills in classrooms.

EGN 1006  EN-ENGR  1(1,0)
Introduction to the Engineering
Profession: PR: New students status or C.I.
Overview of academic and professional
requirements in various engineering
disciplines.

EGN 1036  EN-ENGR  1(1,1)
Foundations of Leadership: PR: LEAD
Scholar. Seminar for LEAD Scholars in the
College of Engineering providing a
foundation of leadership, scholarship, and
service regarding disciplines in the college.

EGN 1111C  EN-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 3210  EN-ECE  3(3,0)
Engineering Analysis and Computation:
PR: MAC 2311. Engineering analysis and
computation with structured constructs.
Subscripted variables, subprograms,
input/output. Batch processing and time
sharing. Engineering applications will be
emphasized.

EGN 3310  EN-CHE  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 3321  EN-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 3331  EN-CHE  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  EN-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  EN-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 3363  EN-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  EN-ECE  4(4,0)
Principles of Electrical Engineering: PR:
PHY 2049; CR: MAP 2302. Fundamental
laws of electrical circuits and circuit
analysis; fundamentals of electronics and
power systems.

EGN 3373H  EN-ECE  4(4,0)
Principles of Electrical Engineering: PR:
PHY 2049; CR: MAP 2302. Fundamental
laws of electrical circuits analysis; funda-
mentals of electronics and power systems.
Honors level contents. Open to honor
students only.

EGN 3420  EN-ECE  3(3,0)
Engineering Analysis: PR: High-level
language or equivalent (FORTRAN
preferred); MAC 2312. Engineering
analysis and computation using
FORTRAN; engineering applications of
numerical methods including curve fitting,
matrix operations, root finding, integration
and plotting.

EGN 3613  EN-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  EN-CHE  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  EN-ENGR  3(3,0)
Systems Modeling: PR: CGS 1060 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  EN-ENGR  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 4624  EN-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  EN-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  EN-ENGR  3(2,4)
Processing Space-Launch Systems: PR:
For ECE: EEL 3552 or EEL 4767; For
IEMS: ESI 4523; For MAE: EAS 3800.
Assembly and test techniques for preparing
and check-out of the space-launch system
"Inertial Upper Stage." May be repeated for
credit.

EGN 4813  EN-ENGR  3(3,0)
Science in History: Examination of the
reciprocal relations of science and society
from ancient to recent times.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 4814</td>
<td>Technology in History</td>
<td>3(3,0)</td>
<td>PR: History/Humanities sequence or C.I. Important developments in engineering and technology and their effect on society and our socio-economic processes.</td>
</tr>
<tr>
<td>EGN 4816</td>
<td>Turning Points in Engineering</td>
<td>1(1,0)</td>
<td>Seminar covering major historical developments in engineering.</td>
</tr>
<tr>
<td>EGN 4818</td>
<td>Technology in North America</td>
<td>3(3,0)</td>
<td>PR: History/Humanities sequence or C.I. Periods of significant technological change in North America, with emphasis on 19th and early 20th-century developments.</td>
</tr>
<tr>
<td>EGN 4823</td>
<td>Topics in Urban Development</td>
<td>3(3,0)</td>
<td>Production, distribution, and consumption of various commodities. Engineering relationships to distribution, internal structure, function of urban developments, interrelationships of engineering, social, economic, and cultural phenomena.</td>
</tr>
<tr>
<td>EGN 4824</td>
<td>Energy and Society</td>
<td>3(3,0)</td>
<td>Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions.</td>
</tr>
<tr>
<td>EGN 4825</td>
<td>Environment and Society</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 4830</td>
<td>Telecommunications</td>
<td>3(3,0)</td>
<td>Telecommunications and its role in contemporary local, national, and international society.</td>
</tr>
<tr>
<td>EGN 4832</td>
<td>Computers, Cybernetics and Society</td>
<td>3(3,0)</td>
<td>The effects of computers and the cybernetic revolution of the individual and society. Effects of positive and negative feedback on biological, technological and social systems. Computers and their interactions with the human system.</td>
</tr>
<tr>
<td>EGN 4844</td>
<td>Man and Machine</td>
<td>3(3,0)</td>
<td>The influence and interrelationship of invention and technical progress on the evolution of social forms and institutions.</td>
</tr>
<tr>
<td>EGN 4931H</td>
<td>Engineering Honors Seminar</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 4933</td>
<td>Professional Engineering Practice</td>
<td>1(1,0)</td>
<td>PR: Senior standing or C.I. Seminars dealing with current and future global issues within the engineering profession.</td>
</tr>
<tr>
<td>EGN 5035</td>
<td>Topics in Technological Development</td>
<td>3(3,0)</td>
<td>PR: C.I. Selected topics in the technological development of western civilization including the weight-driven clock, steam engine, electric light, etc.</td>
</tr>
<tr>
<td>EGN 5720</td>
<td>Internal Combustion Engine Analysis and Optimization</td>
<td>3(2,3)</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 5840</td>
<td>Small Rocket Applications for Teachers</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 5855C</td>
<td>Metrology</td>
<td>3(2,2)</td>
<td>PR: EIN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing.</td>
</tr>
<tr>
<td>EGN 5858C</td>
<td>Introduction to Rapid Prototyping</td>
<td>3(2,2)</td>
<td>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.</td>
</tr>
<tr>
<td>EIN 3304</td>
<td>Introduction to Industrial Engineering and Management Systems</td>
<td>3(3,0)</td>
<td>An overview of the issues important to the operation of an industrial or service facility.</td>
</tr>
<tr>
<td>EIN 3314C</td>
<td>Work Measurement &amp; Design</td>
<td>3(2,2)</td>
<td>PR: STA 3032, EIN 3304. Management standards for evaluation and control of man and machine systems. Flow and operations analysis, work measurement, job evaluations. Laboratory assignments.</td>
</tr>
<tr>
<td>EIN 3354</td>
<td>Principles of Cost Engineering</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>EIN 4116C</td>
<td>Systems Analysis and Design</td>
<td>3(2,2)</td>
<td>PR: ESI 4312, Senior standing. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions. Initiation of senior design projects.</td>
</tr>
<tr>
<td>EIN 4118C</td>
<td>Industrial Engineering Applications of Computers</td>
<td>3(2,3)</td>
<td>PR: EIN 3304. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises.</td>
</tr>
<tr>
<td>EIN 4214</td>
<td>Safety Engineering and Administration</td>
<td>3(3,0)</td>
<td>Analysis of accidents in the industrial operating environment. Application of fault trees, OSHA requirements. Consideration of accident costs and organizational aspects of accident prevention.</td>
</tr>
<tr>
<td>EIN 4243C</td>
<td>Human Engineering</td>
<td>3(2,2)</td>
<td>PR: EIN 3314C; Senior standing. Man/machine systems; design and conduct of human engineering studies.</td>
</tr>
<tr>
<td>EIN 4305C</td>
<td>Industrial Engineering Applications in The Service Industries</td>
<td>3(2,2)</td>
<td>PR: EIN 3314C, ESI 4312, ESI 4524. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc.</td>
</tr>
<tr>
<td>EIN 4333C</td>
<td>Industrial Control Systems</td>
<td>3(2,3)</td>
<td>PR: ESI 4312, EIN 4118C. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments.</td>
</tr>
</tbody>
</table>
EIN 4364C EN-IEMS 3(2,2)
Industrial Facilities Planning and Design: PR: EIN 3314C, EIN 4391C, EIN 4333C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments.

EIN 4391C EN-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 EN-IEMS 3(3,0)
Principles of Concurrent Engineering: PR: EGN 3613, EIN 3304, or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly.

EIN 4411C EN-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 EN-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 5117 EN-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 5248C EN-IEMS 3(2,2)
Ergonomics: PR: C.I. Applications of anthropology, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipment, and workstations.

EIN 5251 EN-IEMS 3(3,0)
Human-Computer Interaction: Usability Evaluation: Usability paradigms/principles; cognitive walkthroughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques; query techniques; laboratory techniques; and field study approaches.

EIN 5255 EN-IEMS 3(3,0)
Interactive Engineering: PR: C.I. Introduction to significant topics relative to the development and use of interactive simulation for knowledge transfer in the technical environment.

EIN 5356 EN-IEMS 3(3,0)
Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle.

EIN 5368C EN-IEMS 3(2,2)

EIN 5381 EN-IEMS 3(3,0)
Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support.

EIN 5388 EN-IEMS 3(3,0)
Forecasting: PR: STA 5156. Industrial applications of forecasting methods with emphasis on microcomputer-based packages.

EIN 5392C EN-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 EN-IEMS 3(2,2)
Tool Engineering and Manufacturing Analysis: PR: EIN 4411. Tool materials and design, tolerance technology, theory of metal cutting, and machineability.

EIN 5602C EN-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 EN-IEMS 3(2,2)
Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4411C or EML 4535C, or C.I. Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control.

EIN 5936 EN-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.

EIN 5937 EN-IEMS 3(3,0)
Taguchi's Quality by Design: Taguchi methods for design of experiments and quality improvement.

ELD 4011 ED-EPE 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-EPE 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.

EMA 3000 EN-MMAE 3(3,0)

EMA 3012C EN-MMAE 3(2,3)

EMA 3124 EN-MMAE 3(3,0)

EMA 4223 EN-MMAE 3(3,0)

EMA 4413 EN-MMAE 3(3,0)
<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>EMA 4606</td>
<td>EN-MMAE 3(3,0) Transport Phenomena in Materials Processing</td>
<td>3(0)</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 4701C</td>
<td>EN-MMAE 3(2,4) Materials Performance in Space Applications</td>
<td>3(4)</td>
<td>PR: EGN 3365. Laboratory failure analysis of materials within space-related environments.</td>
</tr>
<tr>
<td>EMA 5060</td>
<td>EN-MMAE 3(3,0) Polymer Science and Engineering</td>
<td>3(0)</td>
<td>PR: EGN 3365. Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications.</td>
</tr>
<tr>
<td>EMA 5106</td>
<td>EN-MMAE 3(3,0) Metallurgical Thermodynamics</td>
<td>3(0)</td>
<td>PR: EGN 3343 and EGN 3365. Laws of thermodynamics, phase equilibria, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams.</td>
</tr>
<tr>
<td>EMA 5108</td>
<td>EN-MMAE 3(3,0) Surface Science</td>
<td>3(0)</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 5140</td>
<td>EN-MMAE 3(3,0) Introduction to Ceramic Materials</td>
<td>3(0)</td>
<td>PR: EGN 3365. Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications.</td>
</tr>
<tr>
<td>EMA 5236</td>
<td>EN-MMAE 3(3,0) Corrosion Science and Engineering</td>
<td>3(0)</td>
<td>PR: EGN 3363. Electrochemical principles and applications to detecting and monitoring corrosion processes. Various forms of corrosion, their causes and control. Techniques of corrosion protection.</td>
</tr>
<tr>
<td>EMA 5504</td>
<td>EN-MMAE 3(2,2) Modern Characterization of Materials</td>
<td>3(2,2)</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 5505</td>
<td>EN-MMAE 3(2,2) Scanning Electron Microscopy</td>
<td>3(2,2)</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 5584</td>
<td>EN-MMAE 3(3,0) Biomaterials</td>
<td>3(0)</td>
<td>PR: EGN 3365. Properties of natural biological materials and their relation to microstructure, biocompatibility, specific applications in orthopedic, cardiovascular, visual, neural, and reconstruction implants.</td>
</tr>
<tr>
<td>EMA 5610</td>
<td>EN-MMAE 3(3,0) Laser Materials Processing</td>
<td>3(0)</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 5705</td>
<td>EN-MMAE 3(3,0) High Temperature Materials</td>
<td>3(0)</td>
<td>PR: EMA 5104. Desired material properties for high temperature applications, physical metallurgy of such materials, corrosion, hot corrosion and oxidation properties, aerothermal and land-based gas turbine requirements.</td>
</tr>
<tr>
<td>EME 1040</td>
<td>ED-EDS 3(3,0) Technology for Educators</td>
<td>3(0)</td>
<td>PR: EGN 3365. Desired material properties for high temperature applications, physical metallurgy of such materials, corrosion, hot corrosion and oxidation properties, aerothermal and land-based gas turbine requirements.</td>
</tr>
<tr>
<td>EME 5051</td>
<td>ED-EDS 3(3,0) Technologies of Instruction &amp; Information Management</td>
<td>3(0)</td>
<td>PR: EGN 3365. Conservation equations, fluid flow, heat transfer, free and moving boundaries, solidification, single-phase and multi-phase materials, alloys, solute rejection, microstructure, macrosegregation.</td>
</tr>
<tr>
<td>EME 5052</td>
<td>ED-EDS 3(3,0) Electronic Resources for Education</td>
<td>3(0)</td>
<td>PR: EGN 3365. Conservation equations, fluid flow, heat transfer, free and moving boundaries, solidification, single-phase and multi-phase materials, alloys, solute rejection, microstructure, macrosegregation.</td>
</tr>
<tr>
<td>EME 5056</td>
<td>ED-EDS 3(3,0) Communication for Instructional Systems Process</td>
<td>3(0)</td>
<td>PR: EGN 3365. Conservation equations, fluid flow, heat transfer, free and moving boundaries, solidification, single-phase and multi-phase materials, alloys, solute rejection, microstructure, macrosegregation.</td>
</tr>
<tr>
<td>EME 5057</td>
<td>ED-EDS 3(3,0) Communication for Instructional Systems Application</td>
<td>3(0)</td>
<td>PR: EGN 3365. Conservation equations, fluid flow, heat transfer, free and moving boundaries, solidification, single-phase and multi-phase materials, alloys, solute rejection, microstructure, macrosegregation.</td>
</tr>
</tbody>
</table>

EML 5152 EN-MMAE 3(3,0)

EML 5211 EN-MMAE 3(3,0)
Continuum Mechanics: PR: EML 3500 or EML 4703C 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 5224 EN-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 5228C EN-MMAE 3(3,0)

EML 5237 ED-IP 3(3,0)

EML 5245 EN-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 5271 EN-MMAE 3(3,0)

EML 5311 EN-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 EN-MMAE 3(3,0)
Turbo machinery: 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 EN-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 EN-MMAE 3(3,0)

EML 5572 EN-MMAE 3(3,0)

EML 5713 EN-MMAE 3(3,0)

EML 6085 EN-MMAE 3(3,0)
Research Methods in MMAE: PR: EML 5060 and EML 5211. Research project in an MMAE option under supervision of an advisor. A project report is due at the end of the semester.

EMR 4011 ED-EPE 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 4372 ED-EPE 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. Same as ENC 1101, with 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 3210 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 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 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 3242 AS-ENG 3(3,0)
Scientific Report Writing: PR: ENC 1102 & Jr standing or C.I. The principles of science report writing as used in pure and applied science contexts.

ENC 3283 AS-ENG 3(3,0)
Science and the Lay Reader: PR: ENC 3310, ENC 3311 or ENC 3241 or C.I. Analysis of lay scientific magazine articles and practice in scientific writing for the lay audience.

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)

ENC 4218 AS-ENG 3(3,0)
Visual Elements in Documentation: PR: ENC 4293; to be taken concurrently with ENC 4215. Study and preparation of visuals and graphics in technical writing and documentation; use of computer graphics; slides; transparencies; charts; graphs; drawings.

ENC 4280 AS-ENG 3(3,0)

ENC 4293 AS-ENG 3(3,0)

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 and ethical appeals.

ENC 4341 AS-ENG 3(3,0)
Magazine Writing II: PR: ENC 3310 or C.I. Structure and organization of articles, essays, profiles, and reviews, market analysis; data gathering. May be repeated for credit.

ENC 4365 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 5214 AS-ENG 3(3,0)
Production and Publication Methods: Theory and practice of production and publication methods for technical writers.

ENC 5219 AS-ENG 3(3,0)

ENC 5267 AS-ENG 3(3,0)
Styles in technical writing: PR: Graduate Standing or C.I. This course focuses on all the strategies necessary to write effective technical prose.

ENC 5306 AS-ENG 3(3,0)
Persuasive Writing: Theory and practice of writing persuasively.

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 5344 AS-ENG 3(3,0)

ENC 5372 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 5427 AS-ENG 3(3,0)
Hypertext: PR: Sr or Graduate standing. A study of the theory and practice of computer-driven hypertext.

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 4103 AS-ENG 3(3,0)
Literature and Film: PR: ENC 1102. An investigation of 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)  

ENL 4220 AS-ENG 3(3,0)  
English Renaissance Poetry and Prose: PR: ENC 1102. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly & others.

ENL 4240 AS-ENG 3(3,0)  

ENL 4253 AS-ENG 3(3,0)  
The Victorian Age: Poetry: PR: ENC 1102. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others.

ENL 4262 AS-ENG 3(3,0)  

ENL 4273 AS-ENG 3(3,0)  

ENL 4311 AS-ENG 3(3,0)  
Chaucer: PR: ENC 1102. The Canterbury Tales, Troilus and Criseyde, and other works.

ENL 4320 AS-ENG 3(3,0)  
18th Century Studies: PR: ENC 1102. Reading, analysis, and discussion of literature in English: 1660-1880. May be repeated for credit.

ENL 4333 AS-ENG 3(3,0)  
Shakespeare Studies: PR: ENC 1102. 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. Paradise Lost, Paradise Regained, Samson Agonistes, shorter poems and selected prose.

ENL 5226 AS-ENG 3(3,0)  
English Renaissance Poetry and Prose: PR: Senior standing or C.I. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly, and others.

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 5269 AS-ENG 3(3,0)  
Nineteenth-Century Essays: PR: Graduate standing or C.I. English non-fiction prose of the 19th century.

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 dramatic literature.

ENL 5347 AS-ENG 3(3,0)  

ENS 1441 AS-ENG 3(3,0)  
Advanced ESL Writing: PR: TOEFL Score of 500+ and completion of ENC 0020 or equivalent. Advanced work in writing for non-native speakers to overcome problems encountered in mastering academic English, not remedial composition.

ENV 3001 EN-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.

ENV 4112C EN-CEE 3(2,2)  
Air Pollution Measurements Lab: PR: ENV 4121C. Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods.

ENV 4120 EN-CEE 3(3,0)  
Air Pollution Control: PR: EGN 3704 or ENV 3001 and CWR 3201. Air resources engineering design and operation of air pollution control systems.

ENV 4121C EN-CEE 3(2,3)  
Air Pollution: PR: EGN 3704, CWR 3201. Sources, causes, and effects of air pollution. Engineering design, analysis, and modeling for the control of air pollution.

ENV 4122C EN-CEE 3(2,2)  
Air Pollution Control Design: PR: ENV 4121C. Project course on design of air pollution control equipment and systems.

ENV 4300C EN-CEE 3(2,2)  
Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill.

ENV 4341 EN-CEE 3(3,0)  
Solid Waste Management: PR: EGN 3704 or C.I. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes.

ENV 4432 EN-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.

ENV 4531 EN-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.

ENV 4561 EN-CEE 4(4,0)  
design considerations with effluent and sludge handling, treatment, and disposal.

ENV 4562C EN-CEE 3(2,2)  
Environmental Engineering Systems  
Design: PR: ENV 4561, CWR 4202C.  
Project course on design of water and wastewater treatment plants.

ENV 4563 EN-CEE 3(3,0)  

ENV 5071 EN-CEE 3(3,0)  

ENV 5116C EN-CEE 3(2,3)  
Air Pollution Monitoring: PR: ENV 4121C or C.I. Air Pollution sampling techniques, equipment, and monitor siting. Emphasis on theory and direct applications in air pollution monitoring.

ENV 5334 EN-CEE 3(3,0)  
Characterization of Hazardous Waste Sites: PR: CWR 4101C and EGN 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 EN-CEE 3(3,0)  
Hazardous Waste Management: PR: EGN 3704 or C.I. Engineering planning and analysis associated with the handling, storage, treatment, transportation, and disposal of hazardous wastes.

ENV 5410 EN-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 EN-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)  

EPH 5335 ED-IP 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-IP 3-16(0,3-1)  
Internship I - Secondary: PR: EDG 4323. Student teaching in a secondary school under the supervision of a certified classroom teacher.

ESE 4943 ED-IP 7-12(0,35)  
Internship II - Secondary: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars.

ESE 5214 ED-IP 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.

ESE 4221 EN-IEMS 3(3,0)  

ESE 4234 EN-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.

ESE 4312 EN-IEMS 3(3,0)  

ESE 4321C EN-IEMS 3(3,0)  
Quantitative Techniques in Industrial Engineering: PR: EGN 4634 and STA 3032. Extension of EGN 4634 and STA 3032, with primary emphasis on O.R. and statistical applications to industrial engineering problems.

ESI 4523C EN-IEMS 3(2,3)  
Systems Simulation: PR: STA 3032, high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used.

ESI 5236 EN-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 EN-IEMS 3(3,0)  
Research Foundations for IE and OR Modeling: PR: MAP 2032, STA 5156 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 EN-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 queuing theory, simulation, and nonlinear optimization techniques.

ESI 5318 EN-IEMS 3(3,0)  
Military Applications of Operations Research: PR: ESI 4312 or ESI 5316. Course covers application of operations research models to military planning and operations. Use of optimization, simulation, probability, and statistical modeling to evaluate force alternatives.

ESI 5359 EN-IEMS 3(3,0)  
Risk Assessment and Management: PR: STA 5156 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 5410C EN-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.
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 2530C EN-ENT 4(3,2)**
Strength of Materials: PR: ETG 3541. Relationship between external forces and action of members of a structure. Topics include stress, shear, moment, deflections, columns, connections, and Mohr's circle.

**ETG 3541 EN-ENT 4(4,0)**

**ETG 4950C EN-ENT 3(1,4)**
Senior Design Project: PR: ETG 3541, ETG 4522C, EET 3085C. 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 2110 EN-ENT 3(3,0)**

**ETI 3421 EN-ENT 3(3,0)**
Materials and Processes: PR: MAC 1104 and MAC 1114 or equivalent; Chemistry. A study of fundamental properties of materials. Current industrial practices in founding, forming, joining and shaping processes.

**ETI 3440 EN-ENT 3(3,2)**
Product Design: Principles of layout and dimensions for production. Consideration of design factors, standards, specifications, and codes, with emphasis on productability.

**ETI 3651C EN-ENT 3(2,2)**
Computer Applications: PR: Computer programming. Application of high-level program packages to solve problems in industrial practices.

**ETI 3671 EN-ENT 2(2,0)**

**ETI 3690 EN-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 4186 EN-ENT 3(3,0)**
Applied Reliability: PR: ETI 2110. Practical application of reliability concepts and analysis applicable to the design, production and logistics phases of systems and system components.

**ETI 4205 EN-ENT 3(3,0)**
Applied Logististics: PR: ETI 2110 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 4522C EN-ENT 3(2,3)**

**ETI 4635 EN-ENT 3(3,0)**
Technology Administration: PR: ETI 3671 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.

**ETI 4640 EN-ENT 3(3,0)**
Process Planning and Work Measurement: PR: MAC 1104 and COP 2200 or equivalent. Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MTM are covered.

**ETI 4661C EN-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 EN-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.

ETM 4220 EN-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 EN-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 EN-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 EN-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 EN-ENT 3(2,2)

ETM 4755 EN-ENT 4(4,0)
Applied Air Conditioning: PR: ETM 4331C. Analysis of body comfort, psychometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements.

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: Same as EUH 2000 with 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: Same as EUH 2001 with 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 3225 AS-HIST 3(3,0)
Romanticism and Realism: PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservation; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline, Realpolitik, racism, imperialism, and militarism.

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)

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 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)
the New Russia.

**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)**

**EUH 5247 AS-HIST 3(3,0)**
Colloquium in Europe from 1919-1939:

**EUH 5285 AS-HIST 3(3,0)**
Colloquium in Europe Since World War I:

**EUH 5371 AS-HIST 3(3,0)**
Colloquium 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.

**EVS 4795 EN-CEE 3(2,2)**
Air Pollution Control: Fundamental techniques applicable to analyzing composition and sources of pollutants, measuring concentrations, and controlling emissions. Air pollution control programs, laws, rules, and regulations.

**EVT 3062 ED-IP 3(3,0)**
Professional Role of the Vocational Teacher: PR: EVT 3371 or C.I.

**EVT 3312 ED-IP 4(4,0)**
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-IP 4(4,0)**
General Methods/Testing Evaluation in Vocational Education: General teaching methods, testing and evaluation. Techniques specific to Vocational Education and Industry Training.

**EVT 3367 ED-IP 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-IP 4(4,0)**
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-IP 4(4,0)**
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-IP 4(4,0)**

**EVT 4169 ED-IP 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-IP 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-IP 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 5315 ED-IP 2-3(2-3,0)**
Applied Clinical Teaching Techniques in Vocational Education: PR: Regular Certificate or C.I. Study and practice of clinical teaching methods, development of student performance assessment instruments, planning clinical learning experiences, and record keeping.

**EVT 5561 ED-IP 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-IP 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)**

**EXP 3304 AS-PSYCH 3(3,0)**

**EXP 3404 AS-PSYCH 3(3,0)**

EXP 4218L AS-PSYCH 2(0,4) Experimental Laboratory in Human Memory and Cognition: PR: PSY 3214C or C.I. A laboratory course providing in-depth coverage of experimental research on human memory and cognition.

EXP 5208 AS-PSYCH 3(3,0) Sensation and Perception: PR: C.I. A study involving the 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 5257 AS-PSYCH 3(3,0) Human Factors II: PR: EXP 5256 (HFI). The second in the series of basic human factors courses involving an in-depth examination of issues.


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 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: PR: None. An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction, and sound.

FIL 3106 AS-FILM 3(2,3) Film and TV Writing: PR: Majors only. PR: Admission to Film program. Rudiments of scriptwriting, including visual storytelling, story structure, character, dialogue, and introduction to scriptwriting software.

FIL 3201 AS-FILM 3(2,4) Introduction to Film Production: PR: Majors only. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production.

FIL 3231 AS-FILM 3(3,0) Film Documentary: PR: Majors only. The uses and analysis of the non-fiction film.

FIL 3232C AS-FILM 3(2,4) Intermediate Computer Animation: PR: FIL 3285. 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 3282 AS-FILM 3(2,3) Introduction to Cel Animation: PR: Major status. Introduction to traditional cel animation. Drawing skills required.

FIL 3285 AS-FILM 3(2,4) Introduction to Computer Animation: PR: majors only. PR: FIL 3282. Introductory computer graphic techniques utilizing microcomputer systems. Techniques include basic paint systems, color cycling and 2D animation.

FIL 3410 AS-FILM 3(3,0) History of Animated Films: Survey from early animators to the development of the cartoon industry. Television animation included.

FIL 3503 AS-FILM 3(3,1) Film Theory and Criticism I: PR: Film majors and minors only, FIL 2400. Major film theories to the Second World War period.

FIL 3520 AS-FILM 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 3922 AS-FILM 1(1,1) Film Colloquium: PR: Majors only. PR: Admission to the film program. A series of lectures, films and forums designed for students in the film program. The class is taught by film faculty and guest speakers from the film industry. S/U Grade ONLY. Course may be repeated.

FIL 4110 AS-FILM 3(2,3) Comedy Writing: PR: None. Film majors or C.I. Intensive workshop in comedy writing for film and television. Work on story pitches, outlines, and complete scripts for 30-minute television series.

FIL 4111 AS-FILM 3(2,3) Film Colloquium: PR: Majors only. PR: FIL 3106. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting.

FIL 4112 AS-FILM 3(2,3) Advanced Scriptwriting: PR: Majors only. PR: FIL 3106. Advanced writing workshops, principles and methods of adaptation and reader's coverage.

FIL 4115 AS-FILM 3(2,3) Scriptwriting Workshop: PR: Majors only. PR: FIL 3106. Writing workshop for experienced screenwriters, cold readings, preparing calling card script, marketing scripts and funding sources.

FIL 4121 AS-FILM 3(3,0) Intermediate Writing for Motion Pictures and TV: PR: FIL 3106 or C.I.; junior standing. Students complete a feature or TV script developed in FIL 3106.

FIL 4202 AS-FILM 3(2,4) Intermediate Film Production: PR: Majors only. PR: FIL 3201. Advanced exploration of the aesthetic and technical facets of filmmaking.

FIL 4203 AS-FILM 3(2,4) Advanced Film Production: PR: Majors only. PR: FIL 3201, FIL 4202. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production.

FIL 4204 AS-FILM 3(2,4) Film Production Workshop: PR: Majors only. PR: FIL 3201, FIL 4202. Intensive
tutorial guidance, instruction and evaluation of final film projects from post-production through release print.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Name</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL 4211</td>
<td>AS-FILM 3(1,3)</td>
<td>Post-Production Workshop: PR: Majors only. PR: FIL 4202. This class will provide students with a thorough understanding of the process of producing in film and posting on state of the art equipment.</td>
</tr>
<tr>
<td>FIL 4221</td>
<td>AS-FILM 3(3,0)</td>
<td>Film Directing: PR: Majors only. PR: FIL 4202. Principles and practice in directing narrative and documentary motion pictures.</td>
</tr>
<tr>
<td>FIL 4223</td>
<td>AS-FILM 3(3,0)</td>
<td>Art Direction for Film: PR: Majors only. PR: FIL 3201, FIL 4202. Analysis of visual structure of film. Specific problems in art direction.</td>
</tr>
<tr>
<td>FIL 4234C</td>
<td>AS-FILM 3(2,4)</td>
<td>Computer Animation Workshop: PR: Majors only. PR: FIL 3231, FIL 3232, FIL 4233, 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.</td>
</tr>
<tr>
<td>FIL 4252</td>
<td>AS-FILM 3(2,4)</td>
<td>Cinematography: PR: Majors only. PR: FIL 3201. Advanced principles and practices of cinematography.</td>
</tr>
<tr>
<td>FIL 4262C</td>
<td>AS-FILM 4(3,2)</td>
<td>Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation.</td>
</tr>
<tr>
<td>FIL 4283</td>
<td>AS-FILM 3(2,4)</td>
<td>Intermediate Cel Animation: PR: Majors only. PR: FIL 3282. Production from storyboard to composite print.</td>
</tr>
<tr>
<td>FIL 4284C</td>
<td>AS-FILM 3(2,4)</td>
<td>Cel Animation Workshop: PR: Majors only. PR: FIL 4293C. Production from storyboard to composite print from pre-recorded sound track. May be repeated for credit.</td>
</tr>
<tr>
<td>FIL 4287C</td>
<td>AS-FILM 3(2,4)</td>
<td>Advanced Computer Animation: PR: Majors only. PR: FIL 3285 and FIL 3232C. 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.</td>
</tr>
<tr>
<td>FIL 4293C</td>
<td>AS-FILM 3(2,4)</td>
<td>Advanced Cel Animation: PR: Majors only. PR: FIL 4230C. Production from storyboard to composite print from pre-recorded sound track. May be repeated for credit.</td>
</tr>
<tr>
<td>FIL 4403</td>
<td>AS-FILM 3(3,1)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 4504</td>
<td>AS-FILM 3(2,2)</td>
<td>Motion Picture Genre/Aesthetics: PR: Majors only. PR: FIL 3503. Analysis and evaluation of films; major genres, directors, styles, or periods considered in depth.</td>
</tr>
<tr>
<td>FIL 4604</td>
<td>AS-FILM 3(3,0)</td>
<td>The Film Producer: PR: Majors only. PR: FIL 4221. The role of the producer is examined in the context of theatrical film.</td>
</tr>
<tr>
<td>FIL 4607</td>
<td>AS-FILM 3(3,0)</td>
<td>Production Management: PR: Majors only. PR: FIL 3201. Reproduction, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement.</td>
</tr>
<tr>
<td>FIL 4942</td>
<td>AS-FILM 3(2,3)</td>
<td>Animation Workshop: PR: Majors only. PR: FIL 4230C, FIL 4231. An intensive study of various film animation techniques under the tutelage of professional animators.</td>
</tr>
<tr>
<td>FIL 3140</td>
<td>BA-FIN 3(3,0)</td>
<td>Personal Finance and Investments: PR: Junior standing. Fundamentals of managing and investing one's money and acquiring, safeguarding, and disposing of one's assets. Not usable for credit by Finance majors.</td>
</tr>
<tr>
<td>FIN 3303</td>
<td>BA-FIN 3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIN 3403</td>
<td>BA-FIN 3(3,0)</td>
<td>Business Finance: PR: ACG 2021, ACG 2071, (or ACG 2023), 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.</td>
</tr>
<tr>
<td>FIN 3404</td>
<td>BA-FIN 3(3,0)</td>
<td>Intermediate Corporate Finance: PR: FIN 3403. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined.</td>
</tr>
<tr>
<td>FIN 4127</td>
<td>BA-FIN 3(3,0)</td>
<td>Employee Benefits and Retirement Planning: PR: FIN 3403. This course considers the process of establishing specific financial objectives at various stages of life and how those objectives can be reached.</td>
</tr>
<tr>
<td>FIN 4313</td>
<td>BA-FIN 3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIN 4324</td>
<td>BA-FIN 3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIN 4424</td>
<td>BA-FIN 3(3,0)</td>
<td>Advanced Topics in Financial Management: PR: FIN 3404 and FIN 4453. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively.</td>
</tr>
<tr>
<td>FIN 4453</td>
<td>BA-FIN 3(3,0)</td>
<td>Financial Models: PR: FIN 3403, FIN 3404. Mathematical models applied specifically to financial problems, including those models suitable for representation and solutions on computers.</td>
</tr>
<tr>
<td>FIN 4503</td>
<td>BA-FIN 3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIN 4514</td>
<td>BA-FIN 3(3,0)</td>
<td>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.</td>
</tr>
</tbody>
</table>
methods, and test design/evaluation as teaching foreign language in middle grades evaluation of computer software and computer application in teaching the arid culture.

**FLE 5875 AS-LANG 3(3,0)** Computer Application in Teaching the Spanish Language: PR: Graduate Standing or C.I. Survey, analysis, and evaluation of computer software and Internet materials for graduate students of Spanish.

**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 1121C AS-LANG 4(4,1)** Elementary French Language and Civilization II: PR: FRE 1120 or equivalent. 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 3410 AS-LANG 2(2,0)** Advanced Oral French: PR: 2 years college level French or equivalent. Intensive practice of French conversation using video and filmstrips as stimulus of individual and group discussions.

**FRE 3420 AS-LANG 3(3,0)** French Composition: PR: FRE 2201 or equivalent. Development of skills in composition.

**FRE 3423 AS-LANG 2(2,0)** Advanced French Grammar: PR: 2 years of college level French or equivalent. Intensive oral drills and exercises make students practice and review the grammatical structures which are necessary for correct and cultural French speech.

**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 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.

**FRE 4421 AS-LANG 3(3,0)** Advanced French Conversation: PR: FRE 3244. 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 3240. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories.

**FRE 4500 AS-LANG 3(3,0)** French Civilization and Culture: PR: FRE 3244 or 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 4780 AS-LANG 3(3,0) French Phonetics and Diction: PR: FRE 3244 or equivalent. French phonology, with emphasis on phonetic groupings.

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, Mauquoy, 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 3770 AS-LANG 3(3,0) Francophone Literature: PR: Proficiency in French at the third year level. 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 Barzun, Beckett, Bonito, Camus, Mauquoy, Malraux and Sarrute.

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, Claudin, Ionesco, and Sartre; different literary approaches will also be used.


FRW 4532 AS-LANG 3(3,0) French Romanticism: PR: FRW 3100. The 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 3120 BA-HOSP 3(3,0) Quantity Food Purchasing: PR: HFT 4250C or C.I. The purchasing procedures, specifications, and controls of food products in the hospitality industry.

FSS 3223 BA-HOSP 3(3,0) Hospitality Enterprises Management: PR: Junior Standing. Acquaint students with presentation, interpretation, and analysis of hospitality financial reports. Present principles of food, beverage, and labor cost controls. Explore hospitality industry MIS.

FSS 3223C BA-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, parcelling, garnishing, and convenience foods and services. Laboratory class.

FSS 3301 BA-HOSP 3(3,0) Nutrition Concepts and Issues in the Food Service Industry: PR: HFT 4250C or C.I. The purchasing procedures, specifications, and controls of food products in the hospitality industry.

FSS 4135 BA-HOSP 3(3,0) Contract Food Service Management: PR: Junior standing. The organizational and management characteristics of the non-commercial contract and recreational food service industry. Management of food services in venues such as corporations, health care, schools, arenas, concessions, and vending.

FRE 4552 EN-CEE 3(3,0) Physical Geography of North America: Analysis of the North American landscape as affected by climate, vegetation, and geomorphology.

GEB 1091 BA-BUS 1(1,1) Foundations of Leadership: PR: LEAD Scholar. 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: 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 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.

GEO 1200 EN-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 EN-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 3370 EN-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 3370H EN-CEE 3(3,0)  
Resources Geography (Honors): Analysis of human management of global resources and the resulting impact on the world's environment.

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 4140C EN-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 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 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 1121C AS-LANG 4(4,1)  
Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120.

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 1131H AS-LANG 4(4,1)  
Honors Elementary German Language and Civilization II: PR: GER 1120H or equivalent. Same as GER 1121 with honors-level content.

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 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 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 2240 AS-LANG 3(3,0)  
German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice.

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.

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.

GER 2272 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.

GER 3420 AS-LANG 3(3,0)  
Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition.

GER 3440 AS-LANG 3(3,0)  
Business German I: PR: GER 2200. Introduction to German business language and practices.

GER 3441 AS-LANG 3(3,0)  
Business German II: PR: GER 3440. Continuation of Business German I.

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.

GER 3780 AS-LANG 3(3,0)  
German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation.

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.

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.

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.

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.

GEW 3370 AS-LANG 3(3,0)  
Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries.

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.

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.

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.

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 4531 AS-LANG 3(3,0)  
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.

GRE 1121H AS-LANG 4(4,0)
Elementary Greek Language and Civilization II: 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 4(4,0)
Intermediate Modern Hebrew I: PR: HBR 1120 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)

HBT 3220 AS-JUD 3(3,0)
The Israeli Short Story in Translation: Israeli experience as reflected in contemporary stories read in translation. Selected stories by Agnon, Hazaz, Yizhar, Appelfeld, and others will be read and analyzed.

HFT 3000 BA-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 3313 BA-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 3540 BA-HOSP 3(3,0)
Guest Services Management I: CR: Junior standing. The study of making decisions from the guest's point of view in the hospitality industry.

HFT 3600 BA-HOSP 3(3,0)

HFT 3949 BA-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 4210 BA-HOSP 3(3,0)
Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry.

HFT 4250C BA-HOSP 3(3,1)
Hospitality Operations: PR: Junior Standing or C.I. A systematic approach to the subject. Students apply their cumulative knowledge of these related content areas; food service lab component.

HFT 4298 BA-HOSP 3(3,0)
Hospitality Business Consulting: PR: HFT 4747, 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 4473 BA-HOSP 3(3,0)
Hotel Development Analysis: PR: Junior standing, FSS 3223, and C.I. Review of methodological operation, financial, and marketing aspects of analyses for hotel development projects.

HFT 4503 BA-HOSP 3(3,0)
Hospitality and Tourism Marketing: PR: MAR 3023. The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing.

HFT 4717 BA-HOSP 3(3,0)
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 4722 BA-HOSP 3(3,0)
Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations.

HFT 4730 BA-HOSP 3(3,0)

HFT 4752 BA-HOSP 3(3,0)
Guest Services Management II: PR: HFT 4750 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.

HFT 4753 BA-HOSP 3(3,0)
Convention and Conference Services: PR: HFT 4717 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.

HFT 4754 BA-HOSP 3(3,0)
Exhibit and Trade Show Operations: PR: HFT 4717 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.

HFT 4755 BA-HOSP 3(3,0)
Theme Park and Attraction Management: PR: HFT 4714. An in-depth study of the theme park and attraction industry, focusing on resources, ride operations, merchandising, food services, and architectural design.

HFT 4762 BA-HOSP 3(3,0)

HFT 4860 BA-HOSP 3(3,0)
Beverage Management: PR: Junior standing. The origin production, storing, marketing, and control of beverages in the hospitality industry.

HFT 4949 BA-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 7546 BA-HOSP 3(3,0)
Strategies & Tactics: Guest Services Management: PR: Admission to Ph.D. Program in Business Administration. Comprehensive review of the theory, methods, and research findings related to the management of guest service...
organizations, with special emphasis on hospitality and tourism enterprises.

HFT 7258 BA-HOSP 3(3,0)
Strategies & Tactics: Lodging: PR: Admission to Ph.D. Program in Business. Extensive review of the theoretical and empirical literature related to current strategies and operations of lodging enterprises throughout the world.

HFT 7715 BA-HOSP 3(3,0)
Strategies & Tactics: Travel & Tourism: PR: Admission to Ph.D. Program in Business Administration. Extensive review of the theoretical and empirical literature related to current strategies and operations of food service enterprises.

HIS 3462 AS-HIST 3(3,0)

HIS 4120 BA-HOSP 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 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 4722 ED-IP 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.

HMW 3200 AS-JUD 3(3,0)
Readings in Modern Hebrew Literature: PR: 2 years of Hebrew or equivalent.

HSA 3122 HPA-H&PT 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-H&PT 3(3,0)
Health Care Finance: Budgeting; resources for funding current and long-term assets; cost and cost behavior; prospective payment; DRGs as reimbursement base.

HSA 3210 HPA-H&PT 3(3,0)
Long Term Care Administration: Current financing mechanisms and proposed solution, and the impact of government regulation or the operation of long-term care facilities.

HSA 4120 HPA-H&PT 3(3,0)
Community and Public Health Sciences: History and philosophy of public health, interphase of governmental, voluntary, and private health agencies; current community health problems, issues, and needs; social and economic factors.

HSA 4121 HPA-H&PT 3(3,0)
History and Future of Health Care: Health care institutions; purposes of health agencies, organizations and allied health professionals; new trends in health care delivery. Designed for non-majors.

HSA 4180 HPA-H&PT 3(3,0)
Organization and Management for Health Agencies: PR: STA 2014 and Major or Minor in College of Health or C.I. Organization and management of health agency organizations and management procedures.

HSA 4193 HPA-H&PT 3(3,0)
Health Care Automation: Analysis and design of computerized systems for health data and health administration.

HSA 4220 HPA-H&PT 3(3,0)
Long Term Patient Management: Concepts and process of patient care planning and management in a long term care facility; individual and team roles of medicine, paramedical and supportive personnel, patient and family consideration; long term care facility coordinating.

HSA 4502 HPA-H&PT 3(3,0)
Risk Management Systems: PR: None. Safety laws/rules; community inter­relationships; liability insurance types/contracts; malpractice.

HSA 4701 HPA-H&PT 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 5198 HPA-H&PT 3(3,0)
Information Systems and Computer Applications in Medicine: PR: Graduate standing or C.I. Overview of health information systems, with an emphasis on computer applications. Discussion of software and hardware requirements.

HSC 1931 HPA-HPA 1(1,1)
Foundations of Leadership: PR: LEAD Scholar. 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-H&PT 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. Satisfactory/Unsatisfactory grade.

HSC 3110C HPA-H&PT 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 3402C HPA-H&PT 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-H&PT 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-H&PT 3(2,2)
HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease. Topics include: epidemiology & immunology; basic facts, prevention; legal,
Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized.

HUM 2211H AS-PHIL 3(3,0)
Honors Humanistic Tradition I: This course shares the interdisciplinary, multicultural focus on ancient civilizations and their cultural legacies of HUM 2211; it differs principally in the depth and breadth of study.

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 2230H AS-PHIL 3(3,0)
Honors Humanistic Tradition II: This course shares the interdisciplinary, multicultural focus on modern civilizations and their cultural contributions to the Global Village of HUM 2230; it differs principally in the depth and breadth of study.

HUM 3320 AS-PHIL 3(3,0)
Contemporary Multicultural Studies: A study of 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 3401 AS-PHIL 3(3,0)
Asian Humanities: An interdisciplinary survey of the cultures of India, China, and Japan, concentrating on their traditional art, literature, religion, philosophy, and music.

HUM 3417 AS-PHIL 3(3,0)
Hindu Thought and Culture: 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 3418 AS-PHIL 3(3,0)
Islamic Thought and Culture: A survey of the development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art.

HUM 3431 AS-PHIL 3(3,0)
Ancient World: Greece: History and culture of Greece from the Minoan-Mycenaean to the Hellenistic age, with emphasis on contributions in art, literature, and philosophy.

HUM 3432 AS-PHIL 3(3,0)
Ancient World: Rome: History and culture of Rome from the Etruscan Period to the dissolution of the empire, with emphasis on contributions in architecture, law, and literature.

HUM 3553 AS-PHIL 3(3,0)
Moses, Jesus and Muhammad: Deals with the main themes of Judaism, Christianity, and Islam as found in the teachings of Moses, Jesus, and Muhammad.

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.

HUM 4302 AS-PHIL 3(3,0)
The Romantic Ideal: PR: HUM 2211 and HUM 2230 or C.I. The Romantic quest for identity with nature and the sublime in the arts of various times. Concerns feeling, imagination, subjectivity, creativity. Open to all Juniors and Seniors.

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 ethics and pathos.

HUN 2002 HPA-NURS 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.

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.

HUN 5937 HPA-NURS 3(3,0)
Nutrition and Exercise Physiology: This course correlates human nutrition with exercise physiology. Nutritional concepts are related to human performance and fitness.
displays and controls, human information processing, and the effects of some environmental variables on human systems. Topics will include

INP 3004 AS-PSYCH 3(0,3) Principles of Human Factors Psychology: PR: PSY 3204. Analysis of the psychological principles underlying human behavior and performance in an industrial setting. Topics include selection, training, performance appraisal, job design, and employee motivation.


INP 3141C AS-PSYCH 1-3(0,3-9) Advanced Applied Psychology: PR: PSY 3013 and CI. Course will explore application of psychological knowledge to clinical, experimental, industrial, or educational settings. Supervised laboratory experience is required. May be repeated for credit.

INP 3803 AS-PSYCH 3(3,0) Industrial/Organizational Field Work: PR: C.I. This course is offered as an opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations.

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 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 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 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 4114 AS-POLS 3(3,0) American Defense Policy: Study of the evolution of American defense 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, interAmerican politics and organization, and the role of Latin America in the world.

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 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.

ISM 3005 BA-MAN 3(3,0) MIS Techniques: Introduction to computer use required of users and developers of management information systems.


ISM 4090 BA-MAN 3(3,0) Seminar in Management Information Systems: PR: ISM 4212. Course designed to address new developments in
management information systems in a business environment, e.g. artificial intelligence, decision support systems, expert systems, and telecommunications.

**ISM 4113 BA-MAN 3(3,0)**


**ISM 4130 BA-MAN 3(3,0)**


**ISM 4133 BA-MAN 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-MAN 3(3,0)**

Database Management Systems: PR: ISM 3011 or consent of instructor. Design and implementation of relational database in organizations.

**ISM 4220 BA-MAN 3(3,0)**


**ISM 4300 BA-MAN 3(3,0)**

Technology Management: PR: MAN 3025, Junior Standing. The strategy and theory of the design, development, adoption, and management of new information technologies.

**ISM 4941 BA-MAN 3(3,0)**

Internship in MIS: PR: ISM 3005, ISM 4212, and ISM 3011 or ISM 4300. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information; application required.

**ISM 5021 BA-MAN 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.

**ISS 4155 AS-SOC/AN 3(3,0)**

Science Fiction and the Social Sciences: A multimedia examination of note-worthy science fiction from the Social Science perspective.

**ITA 1005 AS-LANG 1(1,0)**

Italian Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, Italian songs, and opera libretti.

**ITA 1120 AS-LANG 4(4,1)**

Elementary Italian Language and Civilization I: Introduces the student to Italian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

**ITA 1121 AS-LANG 4(4,1)**

Elementary Italian Language and Civilization II: PR: ITA 1120 or equivalent. Continuation of ITA 1120.

**ITA 2200 AS-LANG 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 Italian culture.

**ITA 2201 AS-LANG 3(3,0)**

Intermediate Italian Language and Civilization II: PR: ITA 2200 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Italian civilization.

**ITA 2210 AS-LANG 3(3,0)**

Intensive Italian Conversation: PR: ITA 2201 or equivalent. One year of Italian or equivalent. Practical use of the language leading toward fluency and correctness in speaking.

**ITA 2240 AS-LANG 3(3,0)**

Italian Conversation: PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture.

**ITA 3472 AS-LANG 3(3,0)**

Renaissance Art Abroad: PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo.

**ITA 3760 AS-LANG 3(3,0)**

Advanced Italian Oral Communication: PR: ITA 2201 or equivalent. Vocabulary building with systematic training in diction and location. Speeches and oral presentations as well as production and delivery of real-life dialogues.

**ITA 4500 AS-LANG 3(3,0)**

Italian Civilization: PR: ITA 2201. A historical approach to Italian civilization, with particular emphasis on art history.

**ITA 4820 AS-LANG 3(3,0)**

Italian Syntax Abroad: PR: ITA 3420. A study of Italian Syntax for advanced students of Italian.

**ITW 3100 AS-LANG 3(3,0)**

Survey of Italian Literature I: PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries.

**ITW 3101 AS-LANG 3(3,0)**

Survey of Italian Literature II: PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present.

**ITW 3373 AS-LANG 3(3,0)**

The Modern Italian Short Story: PR: ITA 2201. A study of the most representative modern Italian short stories.

**ITW 3600 AS-LANG 3(3,0)**

Dante's Inferno: PR: ITA 1120 or junior standing. An in-depth study of Dante's Inferno. In English.

**JOU 2100 AS-COMM 3(3,1)**

News Reporting: PR: Majors only. PR: Grammar Proficiency Examination and department keyboard exam. Development of skills in newsgathering and writing for the mass media. Students must have minimum ability to type and pass the department language proficiency exam.

**JOU 3004 AS-COMM 3(3,0)**

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: Majors only. PR: Grammar Proficiency Examination and departmental keyboard examination and
JOU 2100. Advanced information-gathering and development of news writing skills.

JOU 3200 AS-COMM 3(3,0)
Editing I: PR: Majors only. PR: Grammar Proficiency Examination and JOU 2100. Editing copy, writing headlines, managing newsroom operations.

JOU 3202 AS-COMM 3(3,0)
Editing II: PR: Majors only. PR: Grammar Proficiency Examination and JOU 3200. Practical aspects of editing. Principles of design. Practice in editing and layout.

JOU 3510 AS-COMM 3(3,0)
Magazine Publishing: PR: JOU 2100 or C.I. The magazine industry, emphasizing business operations and current topics.

JOU 4104 AS-COMM 3(3,0)

JOU 4300 AS-COMM 3(3,0)
Feature Writing: PR: Majors only. PR: Grammar Proficiency Examination, keyboard Examination, and a minimum grade of "C" in JOU 2100 or PUR 3100. Writing feature articles for newspapers and magazines.

JOU 4306 AS-COMM 3(1,2)
Critical Writing: PR: Majors only. PR: Grammar Proficiency Examination, departmental keyboard exam, and a minimum grade of "C" in JOU 2100. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works.

JOU 4308 AS-COMM 3(3,0)
Freelance Writing: PR: Majors only. PR: Grammar Proficiency Examination, departmental keyboard exam, and evidence of satisfactory writing skills. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts.

JOU 4340C AS-COMM 3(1,3)
New Media Studies: PR: JOU 2100, PUR 3100, or Broadcast News Writing. The development, impact, and problems of using the Internet as a journalistic tool. Students will write and design news for the web.

JOU 4511 AS-COMM 3(3,0)
Magazine Editing and Production: PR: C.I. The magazine industry, including writing and editing skills, and editorial, business, and production requirements.

JPN 1120C AS-LANG 4(4,1)
Elementary Japanese Language and Civilizations I: PR: JPN 1120 or equivalent. Continuation of JPN 1120.

JPN 1121C AS-LANG 4(4,1)
Elementary Japanese Language and Civilizations II: PR: JPN 1121 or equivalent. Continuation of JPN 1120.

JPN 2200 AS-LANG 3(3,1)
Intermediate Japanese Language and Civilizations I: PR: JPN 1121 or equivalent. This course aims to help students advance their four skills in modern Japanese: listening, speaking, 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 Civilizations II: PR: JPN 2200 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization.

JST 3100 AS-JUD 3(3,0)

JST 3401 AS-JUD 3(3,0)
The Jewish People I: Introduction survey of the history and culture of the Jewish people from the beginning of Judaism in the biblical era through the Graeco-Roman and rabbinic periods.

JST 3402 AS-JUD 3(3,0)
The Jewish People II: The life and history of the Jews in the medieval and modern worlds.

JST 3550 AS-JUD 3(3,0)
Introduction of Modernism into Judaism: The transition from traditional Judaism to modern Judaism in the 18th century, as epitomized by Moses Mendelssohn and writers of the Jewish Enlightenment (in translation).

JST 3701 AS-JUD 3(3,0)
History of the Holocaust: A comprehensive study of the Holocaust from 1933-1945, discussing the persecution of German Jews and the annihilation of the Jews in Europe.

JST 3751 AS-JUD 3(3,0)
Literature of the Holocaust: A study of the traumatic experience of the Holocaust in Europe as expressed and depicted in contemporary Jewish and Hebrew literature.

JST 3810 AS-JUD 3(3,0)
The Jewish National Movement and Roots of Zionism: Roots of Zionism and Jewish nationalism and their relationship to modern anti-semitism, through analysis of European Jewish history and society.

JST 3820 AS-JUD 3(3,0)
Modern Hebrew Culture: The Development of the State of Israel: Political and ideological struggle for the establishment of the State of Israel, with emphasis on forces which shaped contemporary Israeli society and politics.

LAE 3414 ED-IP 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.

LAE 3504 ED-IP 3(3,0)
Language Acquisition: Examines development of oral language (birth - third grade) and the beginnings of literacy acquisition (birth - age three). Addresses common communicative disorders and intervention methods.

LAE 4314 ED-IP 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.

LAE 4322 ED-IP 3(3,0)
Teaching Language and Composition: PR: EDG 4323. Techniques and methods in teaching of dialects, semantics, the various grammars. A survey of composition and rhetorical methods of selected authors.

LAE 4360 ED-IP 4(3,2)
English Instructional Analysis: PR: EDG 4323. Course objectives for a school curriculum and methods and materials which have special application for teaching
LAE 4464 ED-IP 3(3,0) Survey of Adolescent Literature: This course is designed to explore adolescent literature from both an educational and an historical perspective.

LAE 5195 ED-IP 3(3,0) CFWP Teacher Consultant: PR: C.I. This course is designed for Fellows of the CFWP Summer Institute who will plan, practice, and present writing inservice components to public schools.

LAE 5295 ED-IP 1-3(1-3,0) Writing Workshop I: PR: C.I. Students will engage in exploration and practice of effective writing strategies. May include teaching small groups of students. May be repeated for credit.

LAE 5319 ED-IP 3(3,0) Methods of Elementary School Language Arts: PR: EDG 4323. Principles, procedures, organization and current practices in reading, writing, listening, and talking.

LAE 5337 ED-IP 3(3,0) 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.

LAE 5367 AS-ENG 3(3,0) 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.

LAE 5372 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.

LAE 5415 ED-IP 3(3,0) Children's Literature in Elementary Education: Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children; integrating literature with elementary curricula.

LAE 5465 ED-IP 3(3,0) Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people.

LAE 5495 ED-IP 3(3,0) Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment.

LAH 3130 AS-HIST 3(3,0) Latin American History I: PR: EUH 2000 and 2001 or C.I. The Colonial period.

LAH 3200 AS-HIST 3(3,0) Latin American History II: PR: EUH 2000 and 2001 or C.I. The National period.

LAH 3400 AS-HIST 3(3,0) History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present.

LAH 3470 AS-HIST 3(3,0) History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present.

LAH 5713 AS-HIST 3(3,0) 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.

LAT 1120 AS-LANG 4(4,1) Elementary Latin Language and Civilization I: Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

LAT 1120H AS-LANG 4(4,1) Honors Elementary Latin Language and Civilization I: Same as LAT 1120 with honors-level content.


LAT 1121H AS-LANG 4(4,1) Honors Elementary Latin Language and Civilization II: PR: LAT 1120H or equivalent. Same as LAT 1121 with honors-level content.

LIN 2404 AS-ENG 3(3,0) Vocabulary and the English Language: Includes study of new words and their etymology and usage, the history and evolution of English, and skills and techniques for building vocabulary.


LIN 3640 AS-PSYCH 3(3,0) Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups.

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.


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-American, Germans, Jews, Hispanic, and Japanese.

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.

**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.

**LIN 4710C** HPA-COMD 4(3,1) Foundations of Language: This course explores contributions to language from disciplines of Biology, Neurology, Psychology, and Sociology. Students will have practical experience in analyzing children's language samples.

**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.

**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.

**LIN 5705** HPA-COMD 3(3,0) Psycholinguistics: PR: Graduate status or C.I. Foundations of language in affective consciousness and the human nervous system. Pragmatic analysis of word meaning and its precise scientific measurement. Implications for communicative disorders.

**LIS 4301** ED-IP 3(3,0) Production of Materials for Media Center: PR: LIS 4428. Skill in producing teacher and student-made materials. Emphasizes graphic, photographic, and audio techniques for schools. Lab TBA.

**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 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 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 2120H** AS-ENG 3(3,0) World Literature II- Honors: Same as LIT 2120, with honors-level content.

**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 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 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 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 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 3482** AS-ENG 3(3,0) Literature and Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions.

**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 3911H** AS-ENG 1(1,0) Research Methods - Honors: PR: Honors Student Status or consent of Honors coordinator. Introduction to scholarship and practical research in literature and writing.

**LIT 4043** AS-ENG 3(3,0) Modern Drama As Literature: PR: ENC 1102. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama.

**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.

**LIT 4303** AS-ENG 3(3,0) Post-World War II Fiction: PR: ENC 1102. An investigation of various modes of reality in the works of significant postmodern world authors, crossing cultural boundaries.

**LIT 4374** AS-ENG 3(3,0) Literature of the Bible: PR: ENC 1102 or ENC 3014 or C.I. Literary forms in the Bible - narrative, poetic, and dramatic - and their reflection in modern literature.

**LIT 4396** AS-ENG 3(3,0) Advanced Feminist Theories: PR: ENC 1102, WST 3010. An advanced exploration of feminist critical theories and practices.

**LIT 4433** AS-ENG 3(3,0) Survey of Technical and Scientific Literature: PR: ENC 4293 or C.I. An analysis of the historical development of technical and scientific writing from the Renaissance to the present.

**LIT 4937H** AS-ENG 3(3,0) English Honors Seminar: PR: 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 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 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 5250** AS-ENG 3(3,0) The Victorian Age: Poetry: PR: Graduate standing or C.I. Poets of the Victorian period, including Tennyson, the
Browns, Arnold, Hopkins, Hardy, the Rossetts, Emily Bronte, and others.

**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 5309 AS-ENG 3(3,0)**
Popular Culture and Media: PR: Graduate standing or C.I. Study of contemporary media and the literature of popular culture.

**LIT 5366 AS-ENG 3(3,0)**
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.

**MAA 4226 AS-MATH 4(4,0)**

**MAA 4227 AS-MATH 3(3,0)**
Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226.

**MAA 5210 AS-MATH 4(4,0)**
Topics in Advanced Calculus: PR: MAC 2313 or C.I. Selected topics in multivariable calculus, including limits, continuity, Euler's theorem, the Jacobian, and double series; extension of single variable concepts, including uniform convergence and improper integrals.

**MAA 5404 AS-MATH 3(3,0)**
Complex Analysis: PR: MAA 4226 or C.I. Analytic and harmonic functions, Cauchy's integral theorem, Cauchy's integral formula, Taylor and Laurent series, singularities and residue theory, conformal mapping.

**MAA 5405 AS-MATH 3(3,0)**

**MAA 5416 AS-MATH 3(3,0)**
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, Stokes, and Gauss' theorems.

**MAC 1104 AS-MATH 3(3,0)**
College Algebra: PR: Intermediate algebra or 2 years of high school algebra or C.I. Inequalities. High degree polynomials. Graphs, rational, logarithmic, and exponential functions. Systems of equations, matrices, determinants, induction. This course prepares students for higher-level mathematics courses.

**MAC 1114 AS-MATH 3(3,0)**
College Trigonometry: PR: MAC 1102 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.

**MAC 2233 AS-MATH 3(3,0)**
Concepts of Calculus: PR: MAC 1104 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.

**MAC 2241 AS-MATH 4(4,0)**
Calculus for Life Sciences: PR: MAC 1104. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biologists and others required to have one semester of calculus.

**MAC 2253 AS-MATH 3(3,0)**
Applied Calculus I: PR: MAC 1104 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.

**MAC 2254 AS-MATH 3(3,0)**
Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253.

**MAC 2281 AS-MATH 4(4,0)**
Calculus for Scientists and Engineers I: PR: MAC 1104 and MAC 1114. 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 2211, MAC 2312 and MAC 2313.

**MAC 2282 AS-MATH 4(4,0)**
Calculus for Scientists and Engineers II: PR: MAC 2281. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313.

**MAC 2283 AS-MATH 4(4,0)**
Calculus for Scientists and Engineers: 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 2211, MAC 2312 and MAC 2313.

**MAC 2311 AS-MATH 4(4,0)**
Calculus with Analytic Geometry I: PR: MAC 1104 and MAC 1114 or equivalent or C.I. The differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the 2nd and 3rd semesters the topics also include sequences and series, Taylor series, and the differential and integral calculus for functions of several variables.

**MAC 2311H AS-MATH 4(4,0)**
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.

**MAC 2312 AS-MATH 4(4,0)**
Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311.

**MAC 2312H AS-MATH 4(4,0)**
Calculus with Analytic Geometry II (Honors): Continuation of MAC 2311H.

**MAC 2313 AS-MATH 4(4,0)**
Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312.

**MAC 2313H AS-MATH 4(4,0)**
Calculus with Analytic Geometry III(Honors): Continuation of MAC 2312H.

**MAC 3103H AS-MATH 3(3,0)**

**MAD 4203 AS-MATH 4(4,0)**
Combinatorics and Graph Theory: PR:
MAC 2312 and STA 2023. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and digraphs, trees, path problems, coloring planarity, connectiveness matchings and coverings, applications.

MAD 5205 AS-MATH 3(3,0) 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.

MAE 2801 ED-IP 4(3,1) Elementary School Mathematics: PR: MAC 1104 or MGF 120. 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.

MAE 4300 ED-IP 3(3,0) 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.

MAE 4326 ED-IP 3(3,0) How Children Learn Mathematics: PR: MAE 2801 or C.I., and admission to Phase II. Instructional strategies, learning activities, the use of manipulatives, lesson planning, evaluation of mathematical learning, and diagnostic techniques.

MAE 4360 ED-IP 4(3,2) Mathematics Instructional Analysis: PR: EDG 4323. Study of course objectives for the middle grades and high school curriculum and survey of methods and materials which have special application for teaching mathematics.


MAE 5318 ED-IP 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 5325 ED-IP 3(3,0) Teaching Mathematics in the Middle/Junior High School: PR: 12 s.h. of mathematics, including at least College Algebra. Consideration of the curriculum and instructional techniques appropriate for students in Middle/Junior High School.

MAE 5356 ED-IP 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 5395 ED-IP 3(3,0) Teaching Measurement in Schools: Metric system, methods of developing different measurement skills and concepts, and curriculum changes needed to accommodate measurement.

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 or 2023, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control.

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 3504 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.

MAN 4029 BA-MAN 3(3,0) Service Organization Management: PR: MAN 3025 and MAN 3504. 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 or C.I. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of cases and experimental exercises.

MAN 4129 BA-MAN 3(3,0) Managerial Skills in Organizations: PR: MAN 4240. The transference of management theories into practice. This course requires active student involvement in the development and practice of skills necessary to be a successful manager.

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) Personnel 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 personnel 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: MAN 3504. In-depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization.

quantitative models and expert systems in organizations.

MAN 4572 BA-MAN 3(3,0)
Procurement Management: PR: MAN 3025 and MAN 3504. 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 Core Curriculum. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities.

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-FIN 3(3,0)
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.

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)
Introduction to Production/Operations Management: PR: Acceptance into the graduate program and ECO 5415 or equivalent. Introduction to the fundamental concepts, processes, and institutions involved in the production of goods and services required by modern society.

MAP 2302 AS-MATH 3(3,0)

MAP 2302H AS-MATH 3(3,0)

MAP 3401 EN-ENT 3(3,0)
Problem Analysis: PR: MAC 2253 or MAC 2311 and computer programming. Application of numerical methods techniques to selected problems in Engineering Technology.

MAP 4103 AS-MATH 3(3,0)

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 4307 AS-MATH 3(3,0)

MAP 4308 AS-MATH 3(3,0)

MAP 4363 AS-MATH 3(3,0)

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 5336 AS-MATH 3(3,0)

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, STA 5156 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)

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
relationships, segmentation of markets and management process. Emphasis on sales user and business customer buying program formulation and implementation. Consumer Behavior and Relationship or C. I. An overview of the sales selling.

consistent with integrated marketing communications skills applied to marketing is devoted to the study of professional Marketing Communications and MAR 3391 BA-MAR 

Advertising, Sales Promotion, and Public Relations: PR: MAR 3023 or C.I. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs.

Marketing Communications and Professional Selling: PR: MAR 3023. Study and practice of written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling.

Sales Force Management: PR: MAR 3023 or C.I. An overview of the sales management process. Emphasis on sales program formulation and implementation.


Marketing Analysis and Research: PR: MAR 3023, ECO 3411. Study of analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized.

Marketing Intelligence, Information Sources and Environmental Scanning: PR: MAR 3023. Study of contemporary sources and applications of information concerning external forces impacting market decision making.

International Marketing: PR: MAR 3023 or C.I. Investigates strategy, policy and the variables in international marketing decisions.

Retailing Management: PR: MAR 3023 or C.I. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc.

Sports Marketing: PR: MAR 3023 or C.I. Study of marketing as it applies to the sports and leisure industry.

Healthcare Marketing: PR: MAR 3023 or C.I. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers.

Marketing Management: PR: MAR 3023, MAR 3503, MAR 3613, and MAR 3641. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments.

Marketing Strategy: PR: Senior standing, MAR 3391, and MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making.

Services Marketing: PR: MAR 3023 or C.I. 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.

Marketing Internship: PR: Marketing major, application approval, consent of department chair. Provides student with supervised, market-related work experience in a sponsoring organization. See department for information; application required. Note: MAR 4941 may not be counted for restricted elective credit in marketing.

Marketing Concepts: PR: Acceptance into the graduate program. Study of functions, institutions, and basic marketing of goods in the U.S. economy.

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.

Matrix and Linear Algebra: PR: MAC 2312 or C.I. Matrices, determinants, vector spaces in Rn, linear independence, basis, solutions of systems, range of linear transformations, eigenvectors, Jordon Form, matrix functions, quadratic forms.

Linear Algebra: PR: MTH 3203. Abstract vector spaces, linear transformations, isomorphisms, projections, innerproducts, the spectral theorem, Jordon Canonical Form. (Only offered spring semester).

Introduction to Number Theory: PR: MTH 3203 or C.I. The course will include the following topics: inductive reasoning, factorization, the division algorithm and congruences.


Algebraic Structures: PR: MTH 3203 or C.I. An introduction to groups, rings and fields.

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.

MCB 2005C HPA-M&M 4(3,2)
Microbiology for Health Professionals: PR: BSC 2010C, CHM 2045 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, 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 4114C HPA-M&M 4(3,3)

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 4603C HPA-M&M 3(3,0)
Environmental Microbiology: PR: PCB 3043 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 5487 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.

MCB 5505 HPA-M&M 3(3,0)

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 5XXX HPA-M&M 3(3,0)
Signal Transduction Mechanisms: 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 is required.

MCB 5XXX HPA-M&M 3(3,0)
Tumor Biology: PR: PCB 4524. This course provides an introduction and broad overview of the current knowledge and research in the field of cancer biology.

MET 3101 EN-ENT 3(3,0)
Fundamentals of Meteorology and Climatology: PR: MAC 1104 or C.I. Studies of the physical processes that determine the climate of a region. The methods of measurement and use of meteorological parameters.

MGF 1203 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, arrays, games. This course is intended for students who are not planning to take further courses in mathematics.

MHC 2300 AS-MATH 3(3,0)
Logic and Proof in Mathematics: PR: Two years of high school algebra and one year of geometry or C.I. Basic mathematical logic. Methods of proof in mathematics. Application of proofs to elementary mathematical structures.

MHC 4404 AS-MATH 3(3,0)

MHS 5005 ED-EDS 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.

MIS 1031 EN-AROTC 2(1,1)
Basic Military Science: Organization of the Army and ROTC. Career opportunities, significance of military courtesy, discipline, customs, and traditions. Analysis of weapons and equipment of the U.S. Army.

MIS 1400 EN-AROTC 2(1,1) Fundamentals of Leadership Development: Development of leadership abilities, including squad movement techniques. Fundamentals of Land Nav will be discussed.

MIS 1601 EN-AROTC 1(1,0) Orienteering and Survival: Course is designed to familiarize students on the various survival techniques and methods used in Orienteering.

MIS 2120 EN-AROTC 2(2,1) Leadership Development - I: Development of leadership abilities through practical exercises. Includes platoon leadership assessment program, role of the NCO, land navigation, and conduct of briefings.

MIS 2300 EN-AROTC 2(2,1) Leadership Development - II: Development of leadership abilities. Includes first aid training, communications, the threat, offensive/defensive operations, patrolling, and troop leading procedures.

MIS 3301 EN-AROTC 4(4,1) The Small Unit Leader: Analysis of the leader's role in directing and coordinating efforts of small units in tactical operations. Includes land navigation, weapon systems, communications, defensive/offensive...
Clinical Parasitology: PR: Admission to diagnostic procedures and correlation of data to pathological conditions.

Concepts in Education/Management: PR: Admission to professional phase of the program or C.I. Instruction and laboratory practice in the examination and study of clinical material for the detection and identification of animal parasites.

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.

Immunodiagnostics: PR: PCB 3233. Theory and application of clinical serologic and immunologic diagnostic testing, stressing the utilization of monoclonal technology.

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.

Concepts and Applications in Clinical Chemistry: Overview of clinical chemistry theory and principles for the practicing technologists to include instrumentation, protein chemistry, enzymology, and organ system physiology.

Advanced Clinical Chemistry I: PR: Admission to the professional phase of the MLS program or C.I. Theory and practice in clinical chemistry techniques; carbohydrates, protein, electrophoresis, enzymes, instrumentation, and quality control.

Advanced Clinical Chemistry II: PR: MLS 4625 and admission to professional phase of MLS or C.I. Theory and practice in clinical chemistry techniques; liver function testing, lipids, hormones, toxicology, and drug monitoring.

Clinical Practice I: PR: Admission to the professional phase of MLS program or rotation in one or more of the following areas: Hematology, Chemistry, Microbiology, Blood Bank, Serology-Coagulation, Clinical Microscopy, Nuclear Medicine.
presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization

MRE 3800L HPA-HIM 2(0,4)
Professional Practice Experience I: PR: MRE 3800, HSC 3531, MRE 3800. CR: MRE 3110. Health record assembly and analysis; release of medical information; numbering and filing systems; incomplete record control; retention and retrieval.

MRE 3810L HPA-HIM 2(0,4)
Professional Practice Experience II: PR: MRE 3800, HSC 3531, MRE 3800. CR: MRE 3110. Health record assembly and analysis; release of medical information; numbering and filing systems; incomplete record control; retention and retrieval.

MRE 4202C HPA-HIM 4(3,2)
Coding Procedures I: PR: MRE 3432, HSC 3531, or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders.

MRE 4203C HPA-HIM 3(2,2)
Coding Procedures II: PR: MRE 4202 or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; ICD-9-CM; HCPCS; APGs; encoders.

MRE 4218C HPA-HIM 3(2,2)
Health Information Management Systems: PR: HSA 4193, MRE 4202. Vitalization of information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts.

MRE 4304 HPA-HIM 3(3,0)
Professional Development and Issues in Health Information Management: PR: MRE 4312C, MRE 4500. Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers.

MRE 4312C HPA-HIM 4(3,2)
Health Information Department Management: PR: MRE 3110, MAN 3025. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning.

MRE 4500 HPA-HIM 3(2,2)
Quality Management: PR: MRE 3110, MRE 4303. CR: MRE 4203. Principles and mechanics of quality improvement; utilization review; case management and risk management.

MRE 4830L HPA-HIM 2(0,4)
Professional Practice Experience III: PR: MRE 3300, MRE 3110, MRE 3800, MRE 4202. Inpatient coding; health and vital statistics; JCAH0 accreditation; indexing; abstracting; medical staff organization and credentialing.

MRE 4832L HPA-HIM 2(0,4)
Professional Practice Experience IV: PR: MRE 4203; MRE 4312C; MRE 4500; MRE 4830L. Outpatient coding, quality management, utilization review, risk management, transcription, assignment to hospitals and other health care facilities/organizations.

MRE 4835 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.

MTG 4212 AS-MATH 4(4,0)
Modern Geometries: 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 2300 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness.

MUC 1101 AS-MUSIC 1(1,1)
Composition I: Creative work in small forms. Open to qualified non-music majors with C.I. May be repeated for credit.

MUC 3104 AS-MUSIC 2(1,0)
Composition II: PR: Music major, Junior standing, C.I. Continuation of Composition I. May be repeated for credit.

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 4347 AS-MUSIC 2(2,0)
Digital Notation: PR: MUC 3311. Work on projects utilizing computer notational software applications.
MUE 4330 ED-IP 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 4480 AS-MUSIC 1(1,1)  

MUE 5695 ED-IP 3(3,0)  
Trends in Arts Education: PR: Initial Certification or C.I. Investigation of current trends in arts education; development of strategies for utilizing understandings of arts education in the total curriculum of elementary students.

MUG 3104 AS-MUSIC 2(1,1)  
Basic Conducting: Fundamental techniques and practice in conducting.

MUG 3202 AS-MUSIC 3(3,2)  
Choral Conducting and Materials: PR: MUG 3104. Fundamental principles of choral conducting and rehearsal techniques including an examination of materials.

MUG 3302 AS-MUSIC 3(3,2)  
Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials.

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.

MUG 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.

MUG 4212 AS-MUSIC 3(3,0)  
History and Literature II: PR: MUT 1112. Continuation of MUG 4211.

MUG 4218 AS-MUSIC 1(1,0)  
Review of Music History: PR: C.I. A review of music history from Ancient Greece to the present.

MUG 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.

MUG 3401 AS-MUSIC 2(1,1)  
Piano Literature II: PR: MUL 3400. Continuation of MUL 3400.

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.

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.

MUL 3463 AS-MUSIC 2(2,0)  

MUL 3603 AS-MUSIC 1(1,1)  
American/English Song Literature: PR: C.I. Survey of songs written by American or English composers.

MUL 3604 AS-MUSIC 1(1,1)  
German Song Literature: PR: Music major or C.I. Survey of German song literature.

MUL 3605 AS-MUSIC 1(1,1)  
French Song Literature: PR: Music major or C.I. Survey of French song literature.

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 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 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 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 3274 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.

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.

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.

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.

MUN 3344 AS-MUSIC 1(0,3)  
Chamber Chorus: Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit.

MUN 3383 AS-MUSIC 1(0,3)  
Oratorio Choir: Open to all students, faculty, and members of the community for performance of large works. May be repeated for credit.

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.
Jazz Combo: May be repeated for credit.

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.

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.

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.

MUN 3453 AS-MUSIC 1(0,3)
Piano Ensemble: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit.

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.

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.

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.

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.

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.

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.

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.

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.

MUS 4293 AS-MUSIC 1(1,0)
Music Theatre Ensemble: PR: Junior standing and C.I. Rehearsal, 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.

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.

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.

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 5526 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 1001 AS-MUSIC 3(3,0)
Fundamentals of Music and Sight Singing: PR: None. Application of the fundamentals of music theory through playing the keyboard and singing.

MUT 1111 AS-MUSIC 2(2,1)

MUT 1112 AS-MUSIC 2(2,1)

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)

Intended to be taken with MUT 1112.

MUT 2116 AS-MUSIC 2(2,1)

MUT 2117 AS-MUSIC 2(2,1)

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 3170 AS-MUSIC 3(0,0)
Jazz Theory I: CR: MUT 1111, MUN 1112, MUN 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 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)

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.

| Course | Description | Consent | Credit | Chair | Credit
|--------|-------------|---------|--------|-------|--------
| 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 1411 | AS-MUSIC | 2(1,1) | Trumpet I: PR: Major in music or consent of chair; audition. 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 5451 | AS-MUSIC | 2(1,0) | Trumpet V: PR: C.I. May be repeated for credit. | MVB 5452 | AS-MUSIC | 2(1,0) | Trombone V: PR: C.I. May be repeated for credit. | MVB 5453 | AS-MUSIC | 2(1,0) | Baritone V: PR: C.I. May be repeated for credit. | MVB 5454 | AS-MUSIC | 2(1,0) | Tuba V: PR: C.I. May be repeated for credit. | MVB 5455 | AS-MUSIC | 2(1,0) | Piano: PR: MVB 3436 and competence determined by faculty jury. Continuation of MVB 3436. 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
MVK 1413 AS-MUSIC 2(1,1)
Organ I: PR: Major in music or consent of chairperson; audition. May be repeated for credit.

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 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)

MVO 3114 AS-MUSIC 3(2,1)
Recorder I: Open to non-music majors. Class instruction in beginning recorder playing.

MVO 3124 AS-MUSIC 2(1,1)
Recorder II: PR: C.I. Class instruction in advanced recorder solo and ensemble playing. Open to music students and non-music students who have taken MVO 3114.

MVO 5250 AS-MUSIC 1(0,1)
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)

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVS 1415</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Harp I: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1416</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1876</td>
<td>AS-MUSIC 1(0,1)</td>
<td>Class Guitar I: Open only to non-music majors. Class instruction in beginning guitar playing.</td>
</tr>
<tr>
<td>MVS 2421</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Violin II: PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2422</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Viola II: PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2423</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Cello II: PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2424</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Bass II: PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2425</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Harp II: PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2426</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Guitar II: PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2826</td>
<td>AS-MUSIC 1(0,1)</td>
<td>Class Guitar II: Open to music students or non-music students who have taken Guitar I or C.I. Class instruction in advanced guitar solo and ensemble playing.</td>
</tr>
<tr>
<td>MVS 3431</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Violin III: PR: MVS 2421 and competence determined by faculty jury. Continuation of MVS 2421. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3432</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Viola III: PR: MVS 2422 and competence determined by faculty jury. Continuation of MVS 2422. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3433</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Cello III: PR: MVS 2423 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3434</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Bass III: PR: MVS 2424 and competence determined by faculty jury. Continuation of MVS 2424. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3435</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Harp III: PR: MVS 2425 and competence determined by faculty jury. Continuation of MVS 2425. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3436</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Guitar III: PR: MVS 2426 and competence determined by faculty jury. Continuation of MVS 2426. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 4441</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Violin IV: PR: MVS 3431 and competence determined by faculty jury. Continuation of MVS 3431. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 4442</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Viola IV: PR: MVS 3432 and competence determined by faculty jury. Continuation of MVS 3432. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 4443</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Cello IV: PR: MVS 3433 and competence determined by faculty jury. Continuation of MVS 3433. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 4444</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Bass IV: PR: MVS 3434 and competence determined by faculty jury. Continuation of MVS 3434. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 4445</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Harp IV: PR: MVS 3435 and competence determined by faculty jury. Continuation of MVS 3435. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 4446</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Guitar IV: PR: MVS 3436 and competence determined by faculty jury. Continuation of MVS 3436. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5451</td>
<td>AS-MUSIC 2(1,0)</td>
<td>Violin V: PR: C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5452</td>
<td>AS-MUSIC 2(1,0)</td>
<td>Viola V: PR: C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5453</td>
<td>AS-MUSIC 2(1,0)</td>
<td>Cello V: PR: C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5454</td>
<td>AS-MUSIC 2(1,0)</td>
<td>Bass V: PR: C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5455</td>
<td>AS-MUSIC 2(1,0)</td>
<td>Harp V: PR: C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5456</td>
<td>AS-MUSIC 2(1,0)</td>
<td>Guitar V: PR: C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVV 1111</td>
<td>AS-MUSIC 1(0,1)</td>
<td>Class Voice: Class instruction in beginning voice. May be repeated for credit.</td>
</tr>
<tr>
<td>MVV 1211</td>
<td>AS-MUSIC 1(0,1)</td>
<td>Secondary Voice: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVV 2322</td>
<td>AS-MUSIC 2(2,0)</td>
<td>Singing Broadway: PR: Concurrent enrollment in MVV 1411 or MVV 2421 or MVV 3431 or MVV 4441. This course is devoted to hearing and singing the American music which we now call &quot;Broadway.&quot; Students learn singing techniques utilizing principles of the Italian &quot;Bel Canto&quot; school.</td>
</tr>
<tr>
<td>MVV 2421</td>
<td>AS-MUSIC 2(1,1)</td>
<td>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.</td>
</tr>
<tr>
<td>MVV 3431</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Voice III: PR: MVV 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit.</td>
</tr>
<tr>
<td>MVV 4441</td>
<td>AS-MUSIC 2(1,1)</td>
<td>Voice IV: PR: MVV 3431 and competence determined by faculty jury. Continuation of MVV 3431. May be repeated for credit.</td>
</tr>
<tr>
<td>MVV 4640</td>
<td>AS-MUSIC 1(1,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MVV 4641</td>
<td>AS-MUSIC 1(1,0)</td>
<td>Voice Pedagogy II: PR: C.I. Continuation of MVV 4640. Intermediate to advanced levels. May be repeated for credit.</td>
</tr>
</tbody>
</table>
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.
and Mental Health in the Community: PR: Completion of all junior level first semester course or C.I. Clinical experience rotations in community based health care settings related to physical and mental health care of clients across the lifespan.

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.

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.

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.

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.

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 standing, legal, and practice issues.

NUR 3826H HPA-NURS 3(3,0) Bioethics: Value and Ethics in Everyday Life: PR: Admission to the Honors Program. Includes questions concerning human values and ethical questions arising in health care delivery, policy issues, and professional practice among licensed health care practitioners.

NUR 3905 HPA-NURS Variable Independent Study: Directed Study.

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 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 4196 HPA-NURS 3(3,0) Crisis Intervention: PR: Completion of PSY 2013, SYG 2000 or ANT 2003. Crisis theory and techniques; recognition and intervention in crisis events. Applicable to all areas of nursing and all helping professions.

NUR 4525 HPA-NURS 2(2,0) Nursing Intervention in Mental Illness: PR: Completion of all junior 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 4525L HPA-NURS 1(0,1) Clinical Practice with Mentally Ill Clients: PR: Completion of all junior level fall and spring courses or C.I. Clinical Practice in acute healthcare settings serving clients with a primary diagnosis of mental illness.

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 4636 HPA-NURS 3(3,0) Community as the Continuum of Care: PR: Completion of all junior level & senior 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 4636L HPA-NURS 2(0,2) Clinical Practice in Community Oriented Nursing Practice: PR: Completion of all junior level & senior fall courses or C.I. Application of theories and principles of community health nursing within a community oriented framework for nursing care.

NUR 4745 HPA-NURS 4(4,0) Nursing Care of Clients with Acute and Life-Threatening Illness Across the Lifespan: PR: Completion of all junior level fall & spring courses or C.I. Nursing
care of individuals and families experiencing acute, unstable, or life-threatening health problems.

NUR 4745L HPA-NURS 4(0,4)
Clinical Practice in Caring for Clients with Acute Illness: PR: Completion of all junior level fall & spring courses or C.I. Clinical practice in acute health care settings with clients experiencing acute, unstable, surgical, or life-threatening health conditions.

NUR 4827 HPA-NURS 3(3,0)
Leadership and Management Principles: PR: Completion of all junior level fall or spring courses or C.I. Scientific theories and principles of leadership and management applied to health care settings with the focus on the role of nurses.

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 4836 HPA-NURS 3(1,2)

NUR 4838L HPA-NURS 2(0,2)
Directed Practicum in Nursing Administration: Co-Req: NGR 5720. Clinical practice in an area of Nursing Administration

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.

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.

NUR 4906 HPA-NURS Variable Independent Study: Directed Study.

NUR 4934 HPA-NURS 3(3,0)
Holistic Nursing: PR: None; open to non-matriculated Florida registered nurses. Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes.

NUR 4935 HPA-NURS 3(3,0)
Women's Health Issues: PR: ENC 1102, Junior status, or C.I. Factors and conditions impacting the health of women.

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 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

PAD 3003 HPA-PUB 3(3,0)

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 4131 or C.I. The operations of non-profit organizations, including working with board of directors, volunteer services, fundraising and fundraising, financial management and marketing.

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 & Techniques: PR: PAD 4204 or C.I. This course is intended to familiarize students with the skills and techniques necessary to be effective in preparing and administering a government.

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 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 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 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 5425 HPA-PUB 3(3,0) Dispute Resolution in the Public Sector: An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods.

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.


PCB 3043 AS-BIOL 3(3,0) Principles of Ecology: PR: BSC 2010C and BSC 2011C. Elements of ecosystems, biogeochemical cycling, environmental factor interactions, population dynamics, and community development.

PCB 3043L AS-BIOL 1(0,3) Principles of Ecology Laboratory: CR: PCB 3043. 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, BSC 2011, CHM 2046. Basic principles of heredity as applied to prokaryotes and eukaryotes.

PCB 3063L AS-BIOL 1(0,3) Genetics Laboratory: CR: PCB 3063. Introduction to laboratory techniques of genetics.

PCB 3233 HPA-M&M 3(3,0) Immunology: PR: BSC 2010C. Basic principles of immune reactions, antigen antibody interactions, cell mediated immunity, tumor immunology, and immuno therapy.
animals, with emphasis on vertebrate physiology.

PCB 5026 HPA-M&M 3(3,0)
Signal Transduction Mechanics: PR: Molecular Biology I & II. A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differential. Discussion of original research papers will occur.

PCB 5045C AS-BIOL 4(3,2)
Conservation Biology: PR: PCB 3043 and PCB 3063. Scientific basis of conversation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required.

PCB 5235 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: Molecular Biology II. Tumor biology is a course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology.

PCB 5266C AS-BIOL 5(3,2)
Ecosystems of Florida: PR: PCB 3043, PCB 3043L or equivalent. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation.

PCB 5485 AS-BIOL 3(3,0)
Models in Ecology: PR: PCB 3043, MAC 2311 (or equivalent). A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature.

PCB 5806 HPA-M&M 3(3,0)
Endocrinology: PR: PCB 4723 and BCH 4053 or C.I. Mechanisms of action of hormones; interrelationships between the nervous and endocrine systems.

PCO 4203 AS-PSYCH 4(3,2)
Interviewing and Counseling: PR: PSY 2013, 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-EPE 2(2,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEL 2111 ED-EPE 2(1,1)
Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals.

PEL 2121 ED-EPE 2(2,1)
Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2122 ED-EPE 2(2,1)
Intermediate Golf: PR: PEL 2121 or equivalent competency. A study of performance and application of intermediate skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2341 ED-EPE 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-EPE 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-EPE 2(2,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEM 2101 ED-EPE 2(2,1)
Body Development: An in-depth study of individual physical (musculo-skeletal, neuromuscular, cardiopulmonary) fitness. Emphasis on individual diagnosis, principles, procedures, and conduct of related exercise programs.

PEM 2104 ED-EPE 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 2123 ED-EPE 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 2131 ED-EPE 2(2,1)
Strength Resistance Training: Study of fitness and strength development through resistance exercise.

PEM 2171 ED-EPE 2(2,1)
Aerobic Dancing: Appropriate rhythmical muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate.

PEM 2405 ED-EPE 3(1,2)
Self Defense for Women and Men: Designed to provide students with self defense skills.

PEN 1121 ED-EPE 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.

PEN 2011 ED-EPE 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.

PEN 2031 ED-EPE 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-EPE 3(2,1)
Coaching Basketball: Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies.

PEO 3041 ED-EPE 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-EPE 3(2,1)
Coaching Volleyball: Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies.

PEP 3205 ED-EPE 3(2,1)
Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics.

PET 2175 ED-EPE 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.

PET 2443 ED-EPE 2(1-2)
Tue Kwon Do: An analysis and application

PET 3623C HPA-H&PT 3(2,2) Principles of Athletic Training: PR: PHY 3670C. Continuum of clinical practicum under direct supervision of a certified athletic trainer.

PET 3624 ED-EPE 3(2,1) Coaching Football: Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies.

PET 3670C HPA-H&PT 4(0,8) Practicum in Athletic Training I: PR: PET 3620C. Evaluative skills required to perform a thorough medical evaluation.

PET 3671C HPA-H&PT 4(0,8) Practicum in Athletic Training II: PR: PET 3670C. Continuum of clinical practicum under direct supervision of a certified athletic trainer.

PET 3675 ED-EPE 3(3,0) Coaching Theory and Officiating: Theory and methods of coaching and officiating techniques.

PET 4035C ED-EPE 3(2,1) Motor Development and Learning: PR: PET 3623C. An analysis of the theories and factors influencing the motor development of children and the learning of gross and fine motor skills.

PET 4312 ED-EPE 3(2,1) Biomechanics: PR: PET 4630C. The comprehension and application of anatomical and mechanical principles involved in human movement.

PET 4351 ED-EPE 3(2,1) Applied Exercise and Human Physiology: An in-depth study of the principles of exercise physiology, including first aid, injury recognition, taping techniques, and preventive measures.

PET 4382 ED-EPE 3(2,1) Fitness Assessment and Exercise Physiology: A study and acquisition of health related fitness, exercise strategies and related assessment techniques.

PET 4401 ED-EPE 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 4603 HPA-H&PT 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 4608 HPA-H&PT 3(3,0) Applied Fitness in Sport: PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics.

PET 4624C HPA-H&PT 3(2,2) Art & Science of Athletic Training II: PR: PET 3623C. Specific diagnostic and sport specific injuries in athletics.

PET 4630C HPA-H&PT 4(2,4) Therapeutic Exercise in Athletic Training: PR: PET 3623C. Rehabilitation processes regarding exercise progression for athletic injury.

PET 4632C HPA-H&PT 4(2,4) Therapeutic Modalities in Athletic Training: PR: PET 3623C. Provides principles and techniques for applying therapeutic modalities.

PET 4640 ED-EPE 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-H&PT 3(3,0) Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the profession including legal issues.

PET 4672C HPA-H&PT 4(0,8) Practicum in Athletic Training III: PR: PET 3671C. Advanced Clinical Internship in increased responsibilities under supervision of certified athletic trainer.

PET 4673C HPA-H&PT 4(0,8) Practicum in Athletic Training IV: PR: PET 4672C. Advanced Clinical Internship in independent responsibilities under supervision of certified athletic trainer.

PET 4724 ED-EPE 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 5355 HPA-H&PT 3(3,0) Exercise Physiology and Health: In-depth study of adaptations of cardiovascular and respiratory systems during varying degrees of exercise.

PGY 2401C AS-ART 3(3,0) Photography: PR: Majors only. Recommended for upper division art majors with studio skills. Designed for art majors.


PGY 3610C AS-COMM 3(1,4) Photojournalism I: PR: Majors only.
Visual communication, history, picture appreciation, layout and design, picture story development, basic camera operation, and ethics. 35 mm SLR camera required.

PGY 3640 AS-COMM 3(1,2)

PGY 3680 AS-COMM 3(3,0)

PGY 4420C AS-ART 3(2,3)
Advanced Photography: PR: ART 2201C, 2202C, and PGY 3401C. 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 2202C, and PGY 3401C. 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: 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: The influence of Greek philosophical thought in medieval Muslim, Jewish, and Christian philosophy, as expressed in its main problems and representative thinkers.

PHH 3400 AS-PHIL 3(3,0)
Modern Continental Philosophy: Continental European philosophy from the 17th through the 19th century (Descartes to Nietzsche). Rationalism, Kant, and post-Kantian idealism, materialism, and the critique of reason.

PHH 3402 AS-PHIL 3(3,0)

PHH 3601 AS-PHIL 3(3,0)
Contemporary Continental Philosophy: Current trends in philosophy as represented by the phenomenologists, Frankfurt School, structuralists, eco-philosophers, and postmodern deconstructionists. Examples range from Husserl, Habermas to Foucault, Derrida.

PHH 3620 AS-PHIL 3(3,0)
Contemporary Analytic Philosophy: Anglo-American philosophy oriented toward recent developments by Russell, Wittgenstein, and Kripke, including a study of positivism, ideal and ordinary language analysis, and possible-worlds analysis.

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 2101 AS-PHIL 3(3,0)
Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action, with applications to ethics in the professions.

PHI 2600 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 3022 AS-PHIL 3(3,0)
Sexuality, Gender & Philosophy: Examines the contributions of poststructuralist and neopsychoanalytical theories to cultural issues in sexuality and gender.

PHI 3130 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 3131 AS-PHIL 3(3,0)
Formal Logic II: PR: PHI 3130. Systematic study of propositional and first-order predicate logic; logic systems and axiomatic methods; problems of metatheory, including consistency, completeness, and decidability.

PHI 3320 AS-PHIL 3(3,0)
Philosophy of Mind: 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 3400 AS-PHIL 3(3,0)
Philosophy of Law: Study of the nature of, and justifications for, law and punishment. Examination of the concepts of legal personhood, rights and responsibilities.

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 3601L AS-PHIL 2(0,4)
Practical Wisdom discussion: PR: ENC 1102 or C.I. A computer-based course which deals with applied ethics. The assignments focus on the human good and the relationship between means and ends.

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 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 3700 AS-PHIL 3(3,0)
Philosophy of Religion: An examination of basic ideas, beliefs, attitudes, and functions of religion, with emphasis upon questions of conceptual meaning and cognitive justification.

PHI 3800 AS-PHIL 3(3,0)
Aesthetics: 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 3930H AS-PHIL 3(3,0)
Wisdom in Practice: Honors Seminar: PR: Honors standing or C.I. An Internet-based, interactive course in the application of ethical theory in practical situations.

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 4360 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 justification for belief.

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 4802 AS-PHIL 3(3,0)
Critical Theory & Practice I: PR: ENC 1101 & 1102. Recommended prerequisites are PHH 3100 and PHH 3400. The history of aesthetic theory with particular attention to its application in critical interpretation of arts in various media.

PHI 4804 AS-PHIL 3(3,0)
Critical Theory & Practice II: PR: Critical Theory & Practice I or C.I. PHH 3601 recommended. Critical theory and cultural studies, emphasizing current trends in multiculturalism, neomarxism, neofreudianism, poststructuralism, and gender studies as they apply to arts in diverse media.

PHI 4933 AS-PHIL 3(3,0)
Metaphilosophy: PR: Senior standing. Reflection on the nature of philosophy, its relation to other disciplines, and its central questions. Thesis or project required.

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)

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 3002C HPA-H&PT 3(3,0)
Foundations of Physical Therapy I: PR: Admission into the Physical Therapy Program. The role of the therapist in the health care team. Professionalism, professional communication and caregiving skills and attitudes are emphasized.

PHT 3009 HPA-H&PT 3(2,3)

PHT 3112C HPA-H&PT 4(2,6)
Gross Anatomy/Neuroscience I: PR: Admission into the Physical Therapy program. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, upper and lower extremities, and abdomen.

PHT 3113C HPA-H&PT 4(2,6)
Gross Anatomy/Neuroscience II: PR: PHT 3112C. Continued in-depth examination of human anatomy covering the pelvis, head and neck combined with basic principles of neuroanatomy/neurophysiology. Regional cadaver dissection.

PHT 3122C HPA-H&PT 5(3,4)
Clinical Kinesiology: PR: Admission to Physical Therapy program. A multidisciplinary consideration of normal and abnormal human movement, including recognition, measurement, evaluation and characterization from musculoskeletal, neurological and pathological perspectives.

PHT 3155C HPA-H&PT 4(2,4)
Physiology of Therapeutic Exercise: PR: PHT 3259C. Exercise physiology in conditioning and deconditioning integrated into assessment and treatment plans for healthy patients and those with cardiopulmonary musculoskeletal neurological or selected metabolic disease.

PHT 3214C HPA-H&PT 2(1,3)

PHT 3216C HPA-H&PT 2(1,3)
Theory and Procedures of Physical Therapy II: Continuation of Theory and Procedures I. Focus on electrodiagnosis and electrophysiologic assessment and treatment of pain and broad spectrum of disabilities.

PHT 3222C HPA-H&PT 2(1,3)
Therapeutic Exercise I: Theory and practice in developing, implementing, and evaluating an exercise program for patients with musculoskeletal dysfunction.

PHT 3223C HPA-H&PT 3(2,2)
Functional Rehabilitation in Physical Therapy: PR: Full time enrollment in PT program. Functional management of patients seen in long term rehabilitation setting. Develop, and implement a PT plan of care for patients with central or peripheral trauma.

PHT 3259C HPA-H&PT 3(2,2)
Patient Care Skills: PR: Admission to the Physical Therapy program. Basic skills of patient care; transfers, mobility skills, draping, gait training, and medical terminology.
PHT 3307  HPA-H&PT  2(3,0)  
Medical Science and Pharmacology I:  
Organized seminars on the pathophysioloay  
and clinical manifestations of various  
medical conditions as they relate to medical  
management in physical therapy practice.

PHT 3602  HPA-H&PT  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 3821  HPA-H&PT  1(0,8)  
Clinical Education I:  Three weeks of  
supervised education in clinical facilities.  
Application of objectives of courses  
previously completed.

PHT 4143  HPA-H&PT  3(2,2)  
Pediatrics:  PR:  PHT 3113C and PHT  
3122.  Examination of the psychosocial,  
gross morphological and neurodevelopmental sequences that provide  
the baseline for pediatric clinical  
assessment of individuals from birth to  
twenty one years of age.

PHT 4234C  HPA-H&PT  2(1,2)  
Clinical Neurology I:  Development of care  
plans for patients with brain/brain stem  
pathology.  Introduction to theoretical  
applications for Boboth, Brunnstrom, Rood  
and Voss.

PHT 4308  HPA-H&PT  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 4311C  HPA-H&PT  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 4316C  HPA-H&PT  4(3,3)  
Orthopedic Problems in Physical Therapy:  
PR:  Satisfactory completion of  
second semester.  Critical study of physical  
therapy exams, assessment and treatment of  
the orthopedic patient.  Uses extensive  
problem solving and patient demonstrations.

PHT 4372  HPA-H&PT  2(1,2)  
Gerontology in Physical Therapy  
Practice:  Normal aging processes and the  
health status of older people.  Assessment  
strategies, implications of altered health  
states, drug use, referral sources, plus  
legal/ethical considerations.

PHT 4510  HPA-H&PT  3(3,0)  
Management of Physical Therapy  
Services:  Planning, organizing, delivering  
and evaluating physical therapy services  
within a health care system, including  
quality assurance, third party payers, DRG's  
and legislative impact.

PHT 4610  HPA-H&PT  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 4822  HPA-H&PT  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.

PHT 4823  HPA-H&PT  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.

PHT 4832  HPA-H&PT  1(0,8)  
Clinical Education IV:  PR:  PHT 4143,  
PHT 4372.  Full-time clinical internship  
under the supervision of a physical  
therapist, the student practices and  
integrates evaluation skills and treatment  
knowledge from previous courses.

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 2048H  AS-PHYS  1(0,3)  
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 3049  AS-PHYS  3(3,0)  
Physics for Engineers and Scientists II:  
PR:  MAC 2312 and PHY 2048 or PHY  
3048H.  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 1104 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 3101  AS-PHYS  3(3,0)  
Physics for Engineers and Scientists III:  
PR:  MAC 2313 and PHY 2049 or PHY  
3049H.  Thermodynamics, oscillations,  
modern physics.

PHY 3110H  AS-PHYS  3(3,0)  
Honors Physics for Engineers and  
Scientists III:  PR:  PHY 2049 or PHY  
3049H.  Same as PHY 3101 with honors­ 
level content.

PHY 3221  AS-PHYS  3(3,0)  
Mechanics I:  PR:  PHY 2048 or PHY  
2048H.  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 3101H or C.I.  
Thermodynamics, kinetic theory, elements  
of statistical mechanics.

PHY 3722C  AS-PHYS  3(1,5)  
Physics Laboratory-Electronics:  PR:  
PHY 3752C or C.I. State-of-the-art  
electronics, transducers, operational  
amplifiers, phase sensitive circuits, active  
filters.
with computer assistance.

PHZ 5150C AS-PHYS 1(0.5,1.5) Computer Methods in Physics for Teachers: PR: C.I. Trajectories with air resistance, trajectories in rotating space colonies, refraction of waves in continuous media, luminosity patterns, temperature profiles.

PHZ 5301C AS-PHYS 1(0.5,1.5) Nuclear Physics for Teachers: PR: C.I. The interaction of ionizing radiation with matter, alpha, beta, gamma decay, fission, fusion, neutron activation, half lives, and equilibrium.

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 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-LEGL 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 3105 HPA-LEGL 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-LEGL 3(3,0) Legal Writing: PR: PLA 3105. A study of legal writing format and technique and the preparation of memoranda and other legal documents, using research skills learned in PLA 3105.

PLA 3203 HPA-LEGL 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 3273 HPA-LEGL 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-LEGL 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-LEGL 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 3504 HPA-LEGL 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 3703 HPA-LEGL 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 3800 HPA-LEGL 3(3,0) Career in Legal Studies: PR: PLA 3013 or C.I. Applications of Legal Studies. Students will explore options in law-related fields.

PLA 3903 HPA-LEGL 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 4263 HPA-LEGL 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 4408 HPA-LEGL 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 4813 HPA-LEGL 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-LEGL 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 4830 HPA-LEGL 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 4840 HPA-LEGL 3(3,0)
Entertainment Law: PR: PLA 3013 or C.I. Introduction to the control and regulation of the entertainment industry and the associated legal issues.

PLA 4910 HPA-LEGL 3(4,0)
Trial Advocacy: PR: PLA 3013 or C.I. Analysis of the entire litigation process form the initial client interview through the appellate stage, and development of oral advocacy skills.

PLA 5937 HPA-LEGL 3(1,2)

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.

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 3233 AS-POLS 3(3,0)
Public Opinion: A substantive and theoretical study of public opinion, with emphasis on opinion formation, opinion measurement, policy linkages. May include field experiences in polling.

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 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 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 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 4206 AS-POLS 3(3,0)
Public Opinion: 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 4265 AS-POLS 3(3,0)
Power and Policy in the U.S.: PR: POS 2041 or C.I. Examination of the bases of political power in the U.S. In-depth study of socio-economic political linkages in the policy-making process.

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: Examination of development and issues of civil rights in the second reconstruction. Course emphasis process and analysis of policy.

POS 4941 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, utilitarian, and liberalisms, and communitarian Marxist, libertarian, and feminist critiques of liberalism.

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 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)  

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 2442 AS-PSYCH 3(3,0)  

PSB 3002 AS-PSYCH 3(3,0)  
Physiological Psychology: PR: PSY 2013. 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 2013. 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)  

PSB 4013C AS-PSYCH 4(3,2)  

PSB 4103C AS-PSYCH 3(3,2)  

PSB 4422 AS-PSYCH 3(3,2)  

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 1104 or MGF 1203. Fundamental laws of mechanics, heat, waves, electricity and magnetism; chemical processes and equations, properties of gases, liquids, solids, solutions. Mathematical analysis and logic applied to conclusions inferences.

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 physical transformations.

PSY 2013 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 2013H AS-PSYCH 3(3,0)  
Honors General Psychology: Same as PSY 2013 with honors-level content.

PSY 2023 AS-PSYCH 1(1,0)  
Careers in Psychology: PR: PSY 2013. An examination of various career opportunities in Psychology, including educational entry requirements, and related professional issues. Grades "S" or "U."

PSY 3204 AS-PSYCH 4(3,2)  
Statistical Methods in Psychology: PR:
STA 2014. 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 2013 and STA 2014 or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format.

PSY 3302 AS-PSYCH 3(3,0)
Psychological Measurement: PR: PSY 2013 and STA 2014 or 3023. A study of the theory underlying psychological tests and measurement procedures, including reliability, validity, and item analysis.

PSY 3624 AS-PSYCH 3(3,0)
Parapsychology: PR: PSY 2013. An examination of the history and development of research on paranormal phenomena, with special emphasis on recent developments in extrasensory perception and psychokinesis.

PSY 3951 AS-PSYCH 3(1,5)
Undergraduate Field Work: PR: C.I. Placement in a community agency for supervised experience in applications of psychology to community problems.

PSY 4025 AS-PSYCH 3(3,0)
The Psychology of Art: PR: PSY 2013 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.

PSY 4215C AS-PSYCH 4(3,2)

PSY 4302L AS-PSYCH 2(0,4)
Psychological Measurement Lab: PR: PSY 3214C and C.I. Application of the theory underlying psychological tests and measurement procedures, including reliability, validity, and item analysis.

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 3204 AS-POLS 3(3,0)
Environmental Politics: An examination of politics and policy-making concerning issues of conservation, pollution and development of land, air, and water resources.

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.

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.

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.

PUP 4323 AS-POLS 3(3,0)
Women and Politics: An examination of demands for change in the social, political, and economic status of women and the policy response of the system.

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.

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.

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.

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.

PUR 3100 AS-COMM 3(2,1)
Writing for Public Relations: PR: Majors only. PR: Grammar Proficiency Examination, and typing test. Development of skills in writing for public relations.

PUR 4000 AS-COMM 3(3,0)
Public Relations: Principles and practice of Public Relations including techniques, research tools publicity, and management.

PUR 4001 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.

PUR 4110 AS-COMM 3(1,3)
Public Relations Publications: PR: PUR 4000, PUR 3100. Provides basic principles and techniques of desktop production of public relations publications.

PUR 4800 AS-COMM 3(3,0)
Public Relations Campaigns: PR: Majors only. PR: PUR 4000 or C.I. Planning and execution of public relations campaigns for profit and non-profit organizations.

RAT 3001 HPA-H&PT 3(3,0)

RAT 3241 HPA-H&PT 3(3,0)
Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy.

RAT 3242 HPA-H&PT 2(2,0)
Oncologic Pathology: PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characteristics, histologic grading, staging and treatment.

RAT 3614 HPA-H&PT 2(2,0)
Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection.

RAT 4247 HPA-H&PT 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.

RAT 4248 HPA-H&PT 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.
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-H&PT 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-H&PT 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-H&PT 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-H&PT 4(3,3)

RET 3874 HPA-H&PT 5(1,16)

RET 3875 HPA-H&PT 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-H&PT 3(3,0)

RET 4244 HPA-H&PT 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.

RET 3000 HPA-H&PT 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.


RET 3111C HPA-H&PT 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.

RET 3367 HPA-H&PT 3(3,0) Medical Physics: PR: RT 3684C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding.

RET 3418C HPA-H&PT 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.

RET 3457C HPA-H&PT 3(2.5,1.5) Principles of Radiographic Exposure II: PR: RET 3418 or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality.

RET 3503C HPA-H&PT 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.

RET 3513C HPA-H&PT 3(2,3) Radiographic Procedures II: PR: RET 3503C or C.I. Continuation of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones.

RET 3684C HPA-H&PT 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.
Supervised clinical experience and/or practice in computed tomography, emphasis on surgical and special procedure radiologic technology.

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.

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.

Clinical Education IV: PR: RTE 4824. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranial, facial bones, and special procedures.

Advanced Clinical Practicum: PR: RTE 4824. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonance imaging.

Directed Study in Radiologic Education: PR: EVT 3371 or EDG 4323 or C.I. Directed activity in classroom instruction in radiologic technology.

Foundations of Broadcasting: Nature of the media, the mechanics of operation, history, economics, programming, and internal and external control.

Broadcast Techniques: PR: Majors only. PR or CR: RTV 3000. Introduction to audio production and multi-camera video production. Instruction in audio mixers, microphones, and tape recorders and TV studio production equipment (cameras, switchers, etc.)

Radio Production: PR: Majors only. PR: RTV 3200 or C.I. The production of music (live and recorded), talk, interview, discussion, sports, and documentary, including performance (talent and announcing) and direction.

Lighting for Video: PR: Majors only. PR: RTV 3200. Basic lighting techniques for both studio and location, single and multiple-camera video production.

Broadcast Announcing and Performance: PR: Majors only. PR: RTV 3200 or C.I. A study of communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting. Lab TVA.

Electronic Field Production/Video Editing: PR: Majors only. PR: RTV 3200. Introduction to non-studio video instruction. Electronic field production and electronic news gathering. Utilization of portable video equipment and control track videotape editing equipment.

Advanced Video Post-Production: PR: Majors only. PR: RTV 3260 and C.I. Concentration on A/B roll editing, digital video effects and electronic graphics. Introduction to non-linear video editing systems.

Broadcast Newswriting: PR: Majors only. PR: Grammar Proficiency Examination and departmental typing exam. The study and practice of writing news for radio and television.

Advanced Broadcast Newswriting: PR: Majors only. PR: RTV 3301. The writing of in-depth news items, including documentaries, features, and investigative materials.

Broadcast Copywriting: PR: Majors only. PR: Grammar Proficiency Examination and School Typing Exam. Preparation of written public service and commercial copy for radio and television.

Broadcast Promotion: PR: Majors only. PR: RTV 3200. Examination of techniques that stations use to keep listeners and viewers and to attract new ones. Use of advertising and merchandising.

Television Practicum: PR: Majors only. PR: RTV 3200 and C.I. Primarily an activity course. Student will serve in some position of responsibility for UCF Weekly News or other TV activity. Can be repeated.

Television Directing: PR: Majors only. PR: RTV 3200 and RTV 3260. Preparation and direction of programs, with emphasis on dramatic values of composition.

Radio Production and Programming: PR: Majors only. PR: RTV 3200 or C.I. The study and production of current radio formats and their effects on today's radio listener.

Television News: PR: Majors only. PR: RTV 3200 or C.I. Practical application of TV news theory.

Radio, Television and Society: PR: RTV 3000 for RTV majors. A study of the impact of electronic media upon the habits, customs, and thinking of our times. Considerations of internal media problems.

Regulation of Broadcasting: PR: Majors only. PR: RTV 3000. Federal, state, local and self-regulatory agencies and practices which govern electronic media.

Broadcast Management: PR: Majors only. PR: RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels.

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.

Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120.

Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and
correctness in speaking.

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.

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.

RUS 3240 AS-LANG 3(3,0)
Russian Conversation: PR: RUS 2231 or equivalent. Development of skills in conversation and comprehension through practice.

RUS 3500 AS-LANG 3(3,0)
Russian Culture: PR: RUS 1120 or C.I. Introduction to the main epochs and events in the history of Russian culture with particular emphasis on customs, traditions, and the arts.

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.

SCE 3310 ED-IP 3(3,0)
Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures.

SCE 4023 ED-IP 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.

SCE 4360 ED-IP 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.

SCE 5716 ED-IP 3(3,0)

SCE 5825 ED-IP 3(3,0)
Space Science for Educators: PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum.

SLS 1501 ED-IP 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.

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, pharmacy, podiatry, and chiropractic. Graded "S" or "U."

SOP 2772 AS-PSYCH 3(3,0)

SOP 3004 AS-PSYCH 3(3,0)

SOP 3723 AS-PSYCH 3(3,0)
Cross Cultural Psychology: PR: PSY 2013. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups.

SOP 3724 AS-PSYCH 3(3,0)
The Psychology of Racial Prejudice: PR: PSY 2013. 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.

SOP 3742 AS-PSYCH 3(3,0)
Psychology of Women: PR: PSY 2013. Examination of the psychological impact of changing sex roles in women in modern society. Topics include child rearing, working women, and sex differences in personality and cognition.

SOP 3784 AS-PSYCH 3(3,0)
Psychology of Diversity: PR: PSY 2013. A review of the contributions of psychology to the understanding of human diversity related to ethnic background, gender, sexuality, and belief systems.

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 3104 HPA-SOWK 3(3,0)

SOW 3111 HPA-SOWK 3(3,0)

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 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 3352 HPA-SOWK 3(1,2)
Practice II: 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 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.

SOW 3420 HPA-SOWK 3(2,1)
Social Work with Minorities: PR: SOW 3300, SOW 3203, and SOW 3104. Study of oppressed groups and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups.

SOW 4232 HPA-SOWK 3(3,0)
functioning of individuals at various life stages with particular attention to implications of human diversity.

SOW 5106 HPA-SOWK 3(3,0)
Human Behavior and Social Environment I: Individual and study of human development and psychosocial

SOW 5105 HPA-SOWK 3(3,0)
Human Behavior and Social Environment I: Individual and study of human development and psychosocial

SOW 5040 HPA-SOWK 3(3,0)
Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues.

SOW 5432 HPA-SOWK 3(3,0)
Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities.

SOW 5532 HPA-SOWK 3(3,0)
Field Education I: Generalist Practice: CR: SOW 5305. Supervised practice of

SOW 5533 HPA-SOWK 3(0,3)
Field Education II: Interventions: CR: SOW 5306. Continuation of SOW 5532 Field Education I in the same field agency for 224 clock hours.

SOW 5625 HPA-SOWK 3(3,0)
Social Work with Women: Alternative approaches to the treatment of women in the urban setting.

SOW 5655 HPA-SOWK 3(3,0)
Child Abuse: Treatment and Prevention: The social worker's role and interventions with victims of child abuse and their family members.

SOW 5662 HPA-SOWK 3(3,0)
Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance.

SOW 5712 HPA-SOWK 3(3,0)
Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances.

SPA 3000 HPA-COMD 3(3,0)

SPA 3002 HPA-COMD 3(3,0)
Introduction to Communicative Disorders: Etiology, symptoms, and methods of diagnosing and treating communicative disorders. For beginning and prospective majors in communicative disorders.

SPA 3002H HPA-COMD 3(3,0)
Introduction to Communicative Disorders: Etiology, symptoms, and methods of diagnosing and treating communicative disorders. For beginning and prospective majors in communicative disorders.

SPA 3050 HPA-COMD 3(0,6)
Clinical Observation and Practice: CR: SPA 3550C. C.I. Observation and supervised participation in speech pathology and audiology in the university clinic and local clinics. May be taken twice for credit.

SPA 3101 HPA-COMD 3(3,0)
Physiological Bases of Speech and
Hearing: PR: SPA 3002. An introduction to the anatomical, physiological, and physical elements underlying the communication process.

SPA 3112C HPA-COMD 4(3,1)
Basic Phonetics: Physiological descriptions and visual notation of speech patterns and regional dialects. Students will have practical experiences in transcription of normal and deviant speech.

SPA 3333 HPA-COMD 3(3,0)
Introduction to Signed English and Culture of the Deaf: Vocabulary and grammar through introductory level. Conceptual basis of ASL discussed.

SPA 3550C HPA-COMD 4(3,1)

SPA 4011 HPA-COMD 3(3,0)
Fundamentals of Speech and Hearing Science: Lectures and demonstrations in basic acoustics and speech acoustics. Measurement of sound level and resonance. Discussion of vocal frequency, speech duration and intensity, spectrographic analysis, wave composition, speech recognition, and voice quality.

SPA 4032 HPA-COMD 3(3,0)
Audiology I: Introduction to physics of sound, anatomy of hearing mechanism, pure tone audiometry, hearing aids, problems of the hearing handicapped. Clinical skills development will be required.

SPA 4201C HPA-COMD 4(3,1)
Communication Disorders: Articulation: PR: SPA 3002, 3112. Survey of articulation disorders and their management. Students will have practical experience in diagnosis and treatment of articulation disorders.

SPA 4251 HPA-COMD 3(3,0)

SPA 4251L HPA-COMD 1(0,2)
Organic Speech Disorders Laboratory: Students will have practical experience in observations of organic speech disorders.

SPA 4310 HPA-COMD 3(3,0)
Audiology II: PR: SPA 4032. An overview of medical aspects of hearing loss, electrophysiologic audiometry, and other differential diagnostic testing.

SPA 4321 HPA-COMD 4(4,0)

SPA 4380 HPA-COMD 3(3,0)
Introduction to American Sign Language: Development of ASL vocabulary and grammar. Deaf culture, literature, research examined.

SPA 4381 HPA-COMD 3(3,0)
Intermediate American Sign Language: Expansion of ASL vocabulary with increased development of knowledge concerning deaf culture.

SPA 4402C HPA-COMD 4(3,1)

SPA 4412 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 4554 HPA-COMD 3(3,0)
Therapeutic Communication: Practical interviewing and counseling in the area of communicative disorders.

SPA 4941 HPA-COMD 1(1,1)
Practicum in Communicative Disorders:

SPA 5120 HPA-COMD 4(4,3)
Physiological Acoustics: PR: SPA 4032: Graduate status or C.I. Lectures, readings, and experiments pertaining to the subjective reception of sound.

SPA 5225 HPA-COMD 3(3,0)
Fluency Disorders: PR: Graduate status or C.I. Identification and evaluation of disorders of rhythm. Emphasis will be on methods of intervention in disorders of fluency.

SPA 5225L HPA-COMD 1(0,2)
Fluency Disorders Laboratory: PR: Graduate status or C.I. Practical application of clinical skills in fluency disorders.

SPA 5236 HPA-COMD 3(3,0)

SPA 5307 HPA-COMD 3(3,0)
Differential Diagnosis of Auditory Disorders: PR: SPA 4032; Graduate status or C.I. Clinical techniques in pure tone speech, acoustic impedance, and electrophysiologic response audiometry.

SPA 5327 HPA-COMD 4(4,0)
Aural Habilitation/Rehabilitation: PR: Graduate status or C.I. Principles and procedures involved in speech and language acquisition management, utilization of residual hearing, speech reading, and the use of hearing aids.

SPA 5404 HPA-COMD 3(3,0)
Language Disorders: Preschool: PR: Graduate status or C.I., LIN 4710, SPA 4402C. Graduate students will apply their knowledge of the normal processes of language development to the diagnosis and intervention of communicative impairments of infants and toddlers.

SPA 5553L HPA-COMD 1(0,4)
Differential Diagnosis in Speech and Language Laboratory: PR: SPA 6204, SPA 6403, SPA 6211, SPA 5805. Students will be assigned to diagnostic teams in which they will apply the techniques presented in SPA 5553. Experiences will include test administration, interviewing, writing of diagnostic reports, and oral presentations with staffings.

SPA 5600 HPA-COMD 3(3,0)
Administration and Management of Communicative Disorders Programs: PR: SPA 3002. Methods and techniques for organization and administration of speech-language and hearing disorders in public school, hospital, rehabilitation center, and private practice facilities.

SPA 5805 HPA-COMD 3(3,0)
Research in Communicative Disorders: PR: STA 4163, graduate status or C.I. Introduces the student to empirical research in the area of communicative disorders. Emphasis is on hypothesis testing, methodology, analysis, and interpretation of results.

SPC 1016 AS-COMM 3(3,0)
Oral Communication for the Engineering and Technical Professions:
The preparation and presentation of complex technical data in public speaking situations

SPC 1600C AS-COMM 3(1,2) 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 3425 AS-COMM 3(2,1) Group Interaction and Decision-Making: 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. 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: 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: 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 4425 AS-COMM 3(3,0) Group Dynamics: PR: SPC 3425. A study of human behavior in group situations.

SPC 4540 AS-COMM 3(3,0) Attitudes and Communication: A survey of the immediate and direct ways in which persuasive communications and social groups come to influence attitudes.

SPC 5200 AS-COMM 3(3,0) Evolution of Communication Theory: General Survey: Major communication trends from classical era to the present. Comparison of Aristotelian and non-Aristotelian rhetorics. Contributions of principal figures will be discussed.

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 1121C 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 1120H 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 2140 AS-LANG 3(3,0) Business Spanish I: Spanish language and culture for beginning Spanish language students from a business professional perspective. Emphasis on communicative skills in a professional setting. (Does not fulfill University foreign language requirement.)

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 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 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 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 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 3241 or 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 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.

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 4382 AS-LANG 3(3,0) Central American Literature: PR: SPN 3131. 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.

SPN 4410 AS-LANG 3(3,0) Advanced Spanish Conversation: PR: SPN 2241. 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 3420. 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 2241 or SPN 3420. 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 2241 or SPN 3420. 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 2241 and SPN 3420. Students will learn the basic principles of Spanish pronunciation and perfect the correct pronunciation of Spanish through intensive practice and oral drill.

SPN 4800 AS-LANG 3(3,0) Spanish-American Syntax: PR: SPN 2241 and SPN 3420 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 3100 or 3101 or 3130 or 3131 or 3420. 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.

SPW 3000H AS-LANG 3(3,0) 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 2231 or equivalent. 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 2231 or equivalent. 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 2231 or equivalent. Main literary currents and works from the colonial period to the Nineteenth Century Romanticism.

SPW 3131 AS-LANG 3(3,0) Survey of Latin-American Literature II: PR: SPN 2231 or equivalent. 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 3370 AS-LANG 3(3,0) Spanish Short Story: PR: SPN 2231 or
and their works. A study of the generation's main authors and their works.

SPW 4720 AS-LANG 3(3,0)

SPW 4730 AS-LANG 3(3,0)
Hispanic Literature of the United States: PR: SPN 2241 and SPN 3420. 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: SPN 2241 and SPN 3420 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present.

SPW 5805 AS-LANG 3(3,0)
Spanish Graduate Studies Research: PR: Graduate student in Spanish M.A. program. The tools needed for research in Spanish linguistics, literary criticism, and culture are taught along with historical and contemporary literary criticism.

SPW 5825 AS-LANG 3(3,0)
Literary Theory Pro-Seminar: PR: Graduate Standing or C.I. A study of the concepts and methods of literary criticism as they apply to Spanish and Spanish American literature. May be repeated for credit.

SSE 3312 ED-IP 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-IP 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-IP 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.

STA 1060 AS-STAT 3(3,0)
Basic Statistics Using Microsoft Excel: Applications of Excel; manipulating data; single variable graphs and statistics; scatterplots; probability distributions; statistical inference.

STA 2014 AS-STAT 3(3,0)

STA 2023 AS-STAT 3(3,0)
Statistical Methods I: PR: MAC 1104 or MGF 1203. 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 by not necessary. Same as STA 2023 with honors-level content.

STA 3032 EN-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 4163 AS-STAT 3(3,0)
Statistical Methods II: PR: STA 2023 or STA 3032. 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 4(4,0)
Statistical Methods II with Computer Emphasis: PR: STA 2023 or STA 3032. Methods for analyzing data, design of experiments nonparametric 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 4202 AS-STAT 3(3,0)  
Design of Experiments: PR: STA 4163 or C.I.  
Methods of constructing and analyzing designs for experimental investigations, concepts of blocking, randomization, replication, confounding in factorial experiments, incomplete block designs.

STA 4222 AS-STAT 3(3,0)  
Sample Survey Methods: PR: STA 2023 or STA 3032.  

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, distributions, 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 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 4852 AS-STAT 3(3,0)  
Forecasting methods, time series analysis, stationary and nonstationary time series, ARIMA models, forecasting processes.

STA 5156 EN-IEMS 3(3,0)  
Probability and Statistics for Engineers:  
PR: STA 3032 or equivalent. Theory and applications of discrete and continuous random variables, hypothesis tests, confidence intervals, regression analysis and correlation.

STA 5205 AS-STAT 3(3,0)  
Experimental Design: PR: STA 4164, STA 5206 or STA 5156.  
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 5825 AS-STAT 3(3,0)  
Conditional probability and conditional expectations, sequences of random variables, branching processes, random walks, Markov chains, recurrent events, renewal theory, queuing theory, and simple stochastic processes.

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.

SUR 2101C EN-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)  
An overview of theories concerning the nature of man as a "social being." The nature of society from the beginnings of the scientific study of man's life to World War II.

SYA 3120 AS-SOC/AN 3(3,0)  
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 4450 AS-SOC/AN 4(3,2)  
Data Analysis: PR: SYG 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 4650 AS-SOC/AN 3(3,0)  
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)  
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 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.

SYO 4020 AS-SOC/AN 3(3,0)
Population: Concerned with the study of human population, its distribution, composition, and change.

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.

SYO 3000 AS-SOC/AN 3(3,0)

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. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change.

SYO 4100 AS-SOC/AN 3(3,0)

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. 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. 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)

SYP 3452 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 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 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)

SYP 4453 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 4455 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-culture 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 minority populations, including ethnic minorities, women, and older gay men and lesbians.

SYP 4810 AS-SOC/AN 3(3,0)
Women in Contemporary Society: PR: SYG 2000 or WST 3010. 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 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 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.

TAX 3000 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)
Federal Income Tax II: PR: ACG 3111, TAX 4001, and meet graduate school admission requirements. Concepts and methods of determining taxable income for partnerships and corporations, and selected topics.

THE 1020 AS-THEA 3(3,0)

THE 1020H AS-THEA 3(3,0)

THE 2071C AS-THEA 3(2,2)
Cinema Survey: A broad cultural approach to the study of cinema.

THE 2261 AS-THEA 3(3,3)
Technical Theatre Production: PR: THE 1020, restricted to BA theatre majors. The history, theory, and practice of all areas of technical theatre production. Required of all BA theatre majors.

THE 3090 AS-THEA 1(0,20)
Theatre Production/Performance I: PR: TPA 2210, BA 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 3091 AS-THEA 1(0,20)
Theatre Production/Performance II: PR: THE 3090, BA 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 3092 AS-THEA 3(0,20)
Theatre Careers-Marketing yourself in the theatre: PR: BFA majors, Junior standing. Career building. Knowledge, skills and techniques needed by students seeking Theatre careers. Topics include: contracts, unions, agents, networking, industry protocol, resumes/letters, photographs, auditions, portfolios, interviews.

THE 3110 AS-THEA 3(3,0)
Theatre History I: PR: None. Open to non-majors. Study of the development of theatre arts from pre-history through the seventeenth century. Required of all theatre majors.

THE 3111 AS-THEA 3(3,0)
Theatre History II: PR: THE 3110. Open to non-majors. Study of the development of theatre arts from the seventeenth century to the present. Required of all theatre majors.

THE 3230 AS-THEA 3(3,0)
Commonality within Cultural Diversity Experienced through Theater: PR: THE 1020. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups.

THE 3243 AS-THEA 3(3,0)

THE 3300 AS-THEA 3(3,0)
Script Analysis: PR: None for majors. Non-majors require Departmental permission. Exploration of dramatic form and structure by learning to read, analyze, and understand playscripts for productions. The study of the play script as a blueprint for production. Required of all theatre majors.

THE 3303 AS-THEA 3(3,0)
Play Analysis: PR: Restricted to BA theatre majors or department 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 1020. Study of play scripts from Sophocles to Jonson.

THE 3306 AS-THEA 3(3,0)

THE 4092 AS-THEA 1(0,20)
Theatre Production/Performance III: PR: THE 3091, BA 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 4093 AS-THEA 1(0,20)
Theatre Production/Performance IV: PR: THE 4092, BA 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 4095 AS-THEA 1(0,20)
Theatre Production/Performance V: PR: THE 4093, BA 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 4095, 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.
THEA 1098 AS-THEA 1(0,20)
Theatre Production/Performance VIII:
PR: THE 4097, Theatre Major or C.I.
Participation in UCF Theatre productions.

THEA 4307 AS-THEA 3(3,0)
Contemporary Theatre Practice: PR:
Contemporary trends in plays and theatre
production in the late 20th century.

THEA 4372 AS-THEA 3(3,3)
Theatre/Drama of Tennessee Williams: PR:
THE 3110, THE 3305, or C.I. Study of
the theatre of Tennessee Williams from a
literary, performance, and historical view.

TPA 2208 AS-THEA 2(2,2)
Theatre Drafting: PR: TPA 2210. The
fundamentals of hand drafting in theatre
design and production

TPA 2210 AS-THEA 3(3,6)
Stagecraft I: PR: THE 1020. Restricted to
Theatre majors or Departmental consent.
History, theory, and practice of technical
theatre production. Production crew
required. Required of all BFA Theatre
majors.

TPA 2211 AS-THEA 3(3,6)
Stagecraft II: PR: THE 1020, TPA 2210.
Restricted to BFA theatre only.
Continuation of TPA 2210. Production
crew as required. Required of all BFA
theatre majors.

TPA 2248 AS-THEA 2(2,2)
Restricted to BFA. majors or Departmental consent.
Theory and practice of stage makeup.

TPA 2290 AS-THEA 1(0,20)
Theatre Production/Performance I: PR:
TPA 2926. 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. Not restricted to theatre majors
but requires Departmental consent.
Participation in Theatre Production.
Required of all B.F.A. technical
theatre/design majors.

TPA 3043C AS-THEA 3(3,1)
Costume History I: PR: THE 3111.
Lecture/laboratory study of costume
fashion from the ancient Egyptian period to
the mid 17th century. Study of basic period
silhouette, costume parts, and accessories.

TPA 3060 AS-THEA 3(2,2)
Scenic Design I: PR: TPA 2211 and two
semesters 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 3197 AS-THEA 3(0,30)
Summer Theatre Studio/Tech/Design:
PR: Departmental consent. Study, analysis,
and execution of technical/design aspects
for playscripts produced on UCF mainstage.

TPA 3216 AS-THEA 3(3,4)
Stagecraft III: PR: TPA 2210. BFA
Tech/Design or BFA Stage Management
Major. Continuation of TPA 2211.
Production crew as required.

TPA 3220 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 3221 AS-THEA 3(2,2)
Lighting Design: PR: TPA 3220.
Restricted to B.F.A. theatre majors or B.A.
theatre majors with Departmental consent.
Continuation of Stage TPA 3220.
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.
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
2248. Restricted to B.F.A. theatre majors or
B.A. theatre majors with 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 3250 AS-THEA 2(2,0)
CADD for Theatre: PR: TPA 2210, TPA
3060. Restricted to B.F.A. 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. 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
1020, TPA 2204. Exploration of the
aesthetic and technological aspects of
sound as they relate to the art and craft of
theatre.

TPA 3295 AS-THEA 3(0,30)
Theatre Studio/Tech/Design: PR: Jr
standing, Majors or C.I. Study, analysis
and execution of technical/design aspects
for playscripts produced on UCF mainstage.

TPA 3601 AS-THEA 2(2,2)
Stage Management: PR: TPA 2200, THE
2300, 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. Includes prompt books,
rehearsal, and performance procedures, and
stage management forms and formats.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Restrictions</th>
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<td>TPA 4049</td>
<td>AS-THEA 3(2,2)</td>
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<td>Required of all B.F.A. technical theatre/design majors.</td>
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<td>TPA 4061</td>
<td>AS-THEA 3(2,2)</td>
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<td>Technical theatre/design majors or Departmental consent.</td>
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<td>TPA 4092</td>
<td>AS-THEA 1(0,20)</td>
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<td>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.</td>
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<tr>
<td>TPA 4094</td>
<td>AS-THEA 1(0,20)</td>
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<td>Basic acting techniques for advanced work in characterization and character development.</td>
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<tr>
<td>TPA 4095</td>
<td>AS-THEA 1(0,20)</td>
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<td>Basic acting techniques for advanced work in characterization and character development.</td>
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<td>TPA 4096</td>
<td>AS-THEA 1(0,20)</td>
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<td>Basic acting techniques for advanced work in characterization and character development.</td>
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<td>TPA 4400</td>
<td>AS-THEA 3(3,0)</td>
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<td>Required of all B.F.A. theatre performance majors.</td>
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<td>TPA 4601</td>
<td>AS-THEA 2(3,0)</td>
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<td>Required of all B.F.A. theatre performance majors.</td>
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<td>TPP 2100</td>
<td>AS-THEA 3(3,0)</td>
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<td>Restricted to B.F.A. theatre majors or Departmental consent.</td>
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<td>TPP 3197</td>
<td>AS-THEA 3(0,30)</td>
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<td>Required of all B.F.A. theatre performance majors.</td>
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<td>TPP 3223</td>
<td>AS-THEA 3(3,0)</td>
<td></td>
<td>Required of all B.F.A. theatre performance majors.</td>
</tr>
</tbody>
</table>

**Course Descriptions:***

- **TPA 4049 AS-THEA 3(2,2)**
  - Course Title: Costume Design
  - Prerequisites: TPA 2211, 3043 and two semesters of art. Restricted to B.F.A. 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 4061 AS-THEA 3(2,2)**
  - Course Title: Advanced Design
  - Prerequisites: TPA 3061 and 3221. Restricted to B.F.A. technical theatre/design majors or Departmental consent. Continuation of design series with emphasis on planning, design, and execution of scenery, lighting, and/or costume designs.

- **TPA 4292 AS-THEA 1(0,20)**
  - Course Title: Theatre Production/Performance VI
  - Prerequisites: TPA 4295. Participation in UCF Theatre productions. Required of all B.F.A. technical theatre/design majors.

- **TPA 4293 AS-THEA 1(0,20)**
  - Course Title: Theatre Production/Performance III
  - Prerequisites: TPA 2291. Participation in UCF Theatre productions. Required of all B.F.A. technical theatre/design majors.

- **TPA 4294 AS-THEA 1(0,20)**
  - Course Title: Theatre Production/Performance IV
  - Prerequisites: TPA 4293, BA major or C.I. Participation in UCF Theatre productions. Required of all B.F.A. technical theatre/design majors.

- **TPA 4295 AS-THEA 1(0,20)**
  - Course Title: Theatre Production/Performance V
  - Prerequisites: TPA 4294, BA major or C.I. Participation in UCF Theatre productions. Required of all B.F.A. technical theatre/design majors.

- **TPA 4296 AS-THEA 1(0,20)**
  - Course Title: Theatre Production/Performance VII
  - Prerequisites: TPA 4292, Theatre major or C.I. Participation in UCF Theatre productions.

- **TPA 4400 AS-THEA 3(3,0)**
  - Course Title: Theatre Management
  - Prerequisites: TPA 2211. Study of development, organization, management, funding, and promotion of theatre programs. Additional emphasis placed on management theory and style.
TPP 3511 AS-THEA 2(2,2)
Stage Movement II: PR: TPP 3510.
Restricted to B.F.A. theatre majors or B.A. majors with departmental consent.
Continuation of Stage Movement I. Must be taken sequentially with TPP 3510. All students must receive a grade of "C" or above to continue in the stage movement sequence. Required of all theatre performance majors.

TPP 3512 AS-THEA 2(2,2)
Stage Movement III: PR: TPP 3511.
Restricted to B.F.A. theatre majors. Continuation of Stage Movement II. Attention given to period movement, movement styles and dance. All students must receive a grade of "C" or above to continue in the stage movement sequence. Required of all theatre performance majors.

TPP 3650 AS-THEA 3(3,0)

TPP 3711 AS-THEA 2(2,2)
Voice Production II: PR: TPP 2710.
Restricted to B.F.A. theatre majors or Departmental consent. Continuation of Voice Production I with continued emphasis on corrective coaching of individual speech problems. Must be taken sequentially with TPP 2710. All students must receive a grade of "C" or above to continue in the voice production sequence. Required of all theatre performance majors.

TPP 3712 AS-THEA 2(2,2)
Voice Production III: PR: TPP 3711.
Restricted to B.F.A. theatre performance majors or Departmental consent. Continuation of Voice Production II. Emphasis placed on the unique demands of the communication of dramatic verse text. Particular attention given to diction and the use of emphasis to illuminate poetic language. All students must receive a grade of "C" or above to continue in the voice production sequence. Required of all theatre performance majors.

TPP 3730 AS-THEA 2(2,2)
Voice Production IV/Dialects: PR: TPP 3712.
Restricted to B.F.A. theatre majors or Departmental consent. Continuation of Voice Production III with increased emphasis placed on individual practice and development. Additional emphasis placed on the analysis and sounds of foreign dialects and regional accents.

Students also learn to vary stage voice for age and character roles. Must be taken sequentially with TPP 3712.

TPP 3952 AS-THEA 3(0,30)
Studio Performance: PR: None; not restricted to theatre major but requires department consent. Studio performance provides the specific application of the theatre artist's training to full scale theatre productions.

TPP 4140C AS-THEA 3(2,2)

TPP 4142C AS-THEA 3(2,2)

TPP 4192 AS-THEA 1(0,20)

TPP 4193 AS-THEA 1(0,20)

TPP 4194 AS-THEA 1(0,20)
Theatre Production/Performance V: PR: TPA 4293, BFA major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

TPP 4195 AS-THEA 1(0,20)
Theatre Production/Performance VI: PR: TPP 4193, Theatre major or C.I. Participation in UCF theatre productions.

TPP 4198 AS-THEA 1(0,20)
Theatre Production/Performance VIII: PR: TPP 4197. Participation in UCF Theatre productions. Required of all BFA performance majors. Not restricted to theatre majors, but requires departmental consent.

TPP 4265C AS-THEA 3(3,2)
Acting VI-Acting for TV/Film: PR: TPP 4142, TPP 4531, TPP 3730. 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 4292 AS-THEA 1(0,20)
Theatre Production/Performance VII: PR: TPP 4195, Theatre major or C.I. Participation in UCF Theatre productions.

TPP 4311 AS-THEA 3(2,2)

TPP 4531 AS-THEA 2(2,2)
Stage Movement IV: PR: TPP 3512.
Restricted to B.F.A. theatre performance majors or Departmental consent. Continuation of Stage Movement III. Attention given to stage combat. Must be taken sequentially with TPP 3512.

TPP 4940 AS-THEA 6(0,40)
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.

TSL 5141 AS-LANG 3(3,0)
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.

TSL 5345 ED-IP 3(3,0)
Methods of ESOL Teaching: This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL.

TSL 5525 ED-IP 3(3,0)
ESOL Cultural Diversity: This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs.

TTE 4601C EN-CEE 3(2,2) Urban Systems Design: PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies.

TTE 5204 EN-CEE 3(3,0) Traffic Engineering: PR: TTE 4004. Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings.


TTE 5315 EN-CEE 3(3,0) Transportation Safety Analysis: PR: TTE 4004. Identification of the factors contributing to the accident occurrence and the evaluation of safety investments.

TTE 5700 EN-CEE 3(3,0) Railroad Engineering: PR: TTE 4004 and C.I. The major technical factors in location, construction, maintenance, and operation of railroad transportation systems.

TTE 5805 EN-CEE 3(3,0) Geometric Design of Transportation Systems: PR: TTE 4004. Study of geometric and construction design elements in the engineering of transportation systems.

TTE 5835 EN-CEE 3(3,0) Pavement Design: PR: CEG 4101C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy.

VIC 3001 AS-R/TV 3(3,0) Visual Communication: A study of the visual system of man and the influences of the visual media on modern society.

WOH 2012 AS-HIST 3(3,0) World Civilization I: A topical approach to the study of the rise and decline of world civilizations from the first attempts to the great civilizations of medieval times.

WOH 2022 AS-HIST 3(3,0) World Civilization II: Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization.

WST 3010 AS-WOM 3(3,0) Introduction to Women's Studies: PR: ENC 1102 or C.I. Interdisciplinary course introducing students to key issues and problems regarding women and gender relations in past and present societies.

WST 3930H AS-WOM 3(3,0) Honors Undergraduate Thesis I: PR: Honors Program.

WST 4002 AS-WOM 1(1,0) Researching Women and Gender: PR: WST 3010 or CI. Introduces students to scholars and research in a variety of areas pertaining to the study of women and gender relations.

WST 4903H AS-WOM 3(3,0) Honors Directed Readings I: PR: Honors program.

WST 4904H AS-WOM 3(3,0) Honors Directed Readings II: PR: Honors Program.

WST 4970H AS-WOM 3(3,0) Honors Undergraduate Thesis II: PR: Honors Program.


ZOO 3701C HPA-M&M 2(1,2) Dissection Techniques: PR: ZOO 3733. A course designed to focus on select dissection techniques to aid students in the preparation of three-dimensional prosection material (specimens).


ZOO 4744 AS-BIOL 3(3,0) Neurobiology: Basic biological principles governing the physiology of the nervous system including electrical properties, chemical signalling, cellular composition development, injury, and regeneration.


ZOO 4880C AS-BIOL 4(2,8) Fisheries Management: PR: BSC 2011C or C.I. Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates.


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 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.
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<tr>
<th>Date</th>
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<th>Name</th>
<th>Title</th>
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<tr>
<td>December, 1969</td>
<td></td>
<td>Kurt H. Debus</td>
<td>Doctor of Engineering Science</td>
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<tr>
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<td>William H. Dial</td>
<td>Doctor of Commercial Science</td>
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<td>June, 1970</td>
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<td>John W. Young</td>
<td>Doctor of Applied Science</td>
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<tr>
<td>March, 1973</td>
<td></td>
<td>Louis C. Murray</td>
<td>Doctor of Public Service</td>
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<tr>
<td>August, 1974</td>
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<td>Fred Elmo Clayton</td>
<td>Doctor of Professional Engineering</td>
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<tr>
<td>August, 1978</td>
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<td>Richard F. Livingston</td>
<td>Doctor of Business Administration</td>
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<tr>
<td>June, 1979</td>
<td></td>
<td>Albert F. Hegenberger</td>
<td>Doctor of Engineering Science</td>
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<tr>
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<td></td>
<td>Lee R. Scherer</td>
<td>Doctor of Engineering Science</td>
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<tr>
<td>December, 1979</td>
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<td>Joseph D. Duffey</td>
<td>Doctor of Humane Letters</td>
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<td>August, 1980</td>
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<td>Thelma Vivian Jackson Dudley</td>
<td>Doctor of Humanities</td>
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<td>Howard Phillips</td>
<td>Doctor of Public Service</td>
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<tr>
<td>December, 1981</td>
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<td>Gene Burns</td>
<td>Master of Letters</td>
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<td>April, 1982</td>
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<td>Andrew Duda, Jr.</td>
<td>Doctor of Agricultural Service</td>
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<td>Ferdinand Duda</td>
<td>Doctor of Agricultural Service</td>
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<td>John Duda</td>
<td>Doctor of Agricultural Service</td>
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<td>Robert J. Whalen</td>
<td>Doctor of Engineering Science</td>
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<tr>
<td>July, 1982</td>
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<td>Mary Jo Stroud Davis</td>
<td>Doctor of Public Service</td>
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<td>William E. Davis</td>
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<td>December, 1982</td>
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<td>Joseph A. Boyd</td>
<td>Doctor of Engineering Science</td>
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<td>July, 1983</td>
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<td>J.W. Hubler</td>
<td>Doctor of Engineering Science</td>
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<td>Charles Wadsworth</td>
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<td>December, 1984</td>
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<td>Allan E. Gotlieb</td>
<td>Doctor of Laws</td>
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<td>June, 1985</td>
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<td>George J. Becker, Jr.</td>
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<td>William C. Schwartz</td>
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<tr>
<td>March, 1986</td>
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<td>Isaac Bashevis Singer</td>
<td>Doctor of Letters</td>
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<tr>
<td>October, 1988</td>
<td></td>
<td>Elie Wiesel</td>
<td>Doctor of Letters</td>
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<tr>
<td>December, 1988</td>
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<td>Sven Caspersen</td>
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<td>David Albertson</td>
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<td>Roald Hoffman</td>
<td>Doctor of Science</td>
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<td>Robert A. Bryan</td>
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<td>Buell G. Duncan, Jr.</td>
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<td>Norman R. Augustine</td>
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<td>Richard A. &quot;Dick&quot; Nunis</td>
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<td>Joe. R. Lee</td>
<td>Doctor of Commercial Science</td>
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FACULTY

The date indicates the first year of employment at the University of Central Florida.

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TAYLOR, FINLEY M., Assistant Professor of Foreign Languages and Literatures
(1970), B.A., M.A., Ph.D. (University of Tennessee)

TAYLOR, JAMES S., Director Environmental Systems Engineering Institute and Professor of Engineering
(1977), B.S.I.E., M.S., Ph.D. (University of Florida), P.E. (Florida)

TAYLOR, K. PHILLIP, Professor of Communication
(1970), B.A., Ph.D. (Indiana University)

TAYLOR, MICHAEL D., Professor of Mathematics
(1968), B.A., M.S., Ph.D. (Florida State University)

TAYLOR, WALTER K., Professor of Biology
(1969), B.S., M.S., Ph.D. (Arizona State University)

TEEPE, EUGENE E., Professor of Marketing
(1968), B.S., M.B.A., D.B.A. (University of Oregon)

TELL, PHILLIP M., Associate Professor of Psychology
(1969), B.A., M.A., Ph.D. (University of Virginia)

TESSITORE, MICHAEL A., Instructor of Accounting
(1992), B.A., J.D. (University of Florida)

THOMAS, MARGARET H., Professor of Psychology
(1971), B.A., M.A., Ph.D. (Tulane University)

THOMPSON, RICHARD A., Professor of Education
(1969), B.S., M.S., Ed.D. (Ball State University)

THOMPSON, WILLIAM J., Assistant Professor of Engineering
(1970), B.S., M.S., Ph.D. (Arizona State University)

TING, ROBERT Y., Professor of Chemistry
(1997), B.S., M.S., Ph.D. (University of California - La Jolla)

TOMLIN, KASAUNdra M., Assistant Professor of Economics

TOVBIS, ALEXANDER, Assistant Professor of Mathematics
(1996), M.S., Ph.D. (University of Voronezh)

TREFONAS, LOUIS M., Professor of Chemistry
(1981), B.A., M.S., Ph.D. (University of Minnesota)

TROUARD, DAWN, Chair and Professor of English
(1997), B.A., M.A., Ph.D. (Rice University)

TUBBS, LeVESTER, Vice President for Student Affairs and Associate Professor of Education
(1980), B.S., M.S., Ed.D. (University of Missouri-Columbia)

TUCKER, RICHARD D., Professor of Psychology
(1972), A.B., M.A., Ph.D. (Emory University)

TZANNES, NICOLAOS S., Professor of Engineering
(1986), B.E.E., M.E.E., Ph.D. (Johns Hopkins University)

UPCHURCH, RANDALL S., Associate Professor of Hospitality Management
(1998), B.A., M.A., Ph.D. (University of Missouri-Columbia)
UTT, HAROLD A., JR, Assistant Professor of Communicative Disorders
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VAJRAVELU, KUPPALAPALLE, Professor of Mathematics
and Mechanical and Aerospace Engineering
(1984), B.A., M.S., Ph.D. (Indian Institute of Technology)

VALENTINE, JOHN A., Associate Professor of Health Services Administration

WALTON, GWENDOLYN

WALTERS, LINDA J., Assistant Professor of Psychology
(1996), B.A., M.A., M.S.

WALSH, JAMES E., Coordinator, General Engineering
(1997), B.A., M.A., M.S.

WANIELISTA, MARTIN P., Dean, College of Engineering and Professor of Engineering
(1970), B.S.C.E., M.S., Ph.D. (Cornell University), P.E. (Florida)

WARD, JEANNETTE A., Head, Serials/Media Department and University Librarian
(1984), B.S., M.L.S. (Rutgers University)

WASHINGTON, DAVID W., Associate Professor of Molecular Biology and Microbiology
(1974), B.S., M.S., Ph.D. (Texas A&M University)

WAYSON, ROGER L., Associate Professor of Engineering
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WEAVER, JEANNE, Instructor in Psychology
(1995), B.A., Ph.D. (University of Central Florida)

WEAVER, WILLIAM C., Associate Professor in Finance
(1990), B.S., M.B.A., Ph.D. (Georgia State University)

WEBB, JACK L., Associate University Librarian
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WECHERL, JUDITH L., Associate Professor of Accounting
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WELKE, JAMES W., Professor of Communication
(1986), B.A., M.A., Ph.D. (Indiana University)

WELKER, PATRICIA E., Instructor of Health Sciences
(1991), B.S., M.A., M.S.

WELMAN, CHARLES W., Professor of Art
(1971), B.A., M.A., M.F.A. (University of New Mexico)

WEST, GAIL M., Visiting Professor and Director of Research, College of Education
(1991), B.A., M.A., Ph.D. (Florida State University)

WHISLER, BRUCE A., Associate Dean, College of Arts and Sciences and Associate Professor of Music
(1971), B.A., Ph.D. (University of Rochester)

WHITE, DANIEL R., Associate Professor of Humanities
(1988), B.A., M.A., Ph.D. (Florida State University)

WHITE, KENNETH, Associate Professor of Economics
(1968), B.S., M.B.A., Ph.D. (University of Oklahoma)

WHITE, ROSEANN S., Professor of Molecular Biology and Microbiology
(1969), B.S., Ph.D. (University of Texas)

WHITEHOUSE, GARY E., Provost and Vice President for Academic Affairs and Professor of Engineering

WHITNEY, JOHN C., Director of Orchestral Activities and Professor of Music
(1982), B.S., M.M. (New England Conservatory)

WHITTIER, HENRY O., Professor of Biology
(1968), B.S.Ed., M.S., Ph.D. (Columbia University)

WIGMORE, MARY A., Associate Professor of Accounting
(1992), B.S.I.E., M.S.I.E., Ph.D. (Arizona State University), P.E. (Florida, Pennsylvania)

WILLIAMS, KARL, Associate Professor of Education
(1984), B.S., M.Ed., Ph.D. (University of Arizona)

WILLIAMS, KENT E., Assistant Professor of Engineering
(1976), B.A., M.A., Ph.D.

WINK, DIANE M., Associate Professor of Nursing
(1987), B.S., M.S.N., Ed.D. (University of Central Florida)

WINSHIP, ANDREA P., Instructor Librarian

WINSTON, MARK, Visiting Assistant Professor of Sociology
(1996), B.A., M.A., Ph.D. (University of Connecticut)

WOLF, J. GARY, Distinguished Service Professor of Music
(1972), B.M.Ed., M.M., D.M.A. (Eastman School of Music)

WOOD, ALEXANDER T., Associate Professor of Education
(1969), B.A., M.S., Ph.D. (Florida State University)
WOODSON, DORIS, Visiting Assistant Professor
WOOTEN, WILLIAM, Associate Professor of Psychology
    (1985), B.A., M.S., Ph.D. (Memphis State University)
WORKMAN, DAVID A., Associate Professor of Computer Science
    (1976), B.S., M.S., Ph.D. (University of Iowa)
WORRELL, L. TIMOTHY, Associate Professor of Health Sciences and Director, Cardiopulmonary Sciences Program
    (1976), B.S., M.P.H. (University of Central Florida)
WRANCIK, ELIZABETH A., Associate Professor of Music
    (1974), B.M. (Indiana University)
WYATT, WYATT, Professor of English
    (1970), B.A., M.A. (Columbia University)
WYCOFF, EDGAR B., Associate Professor of Communication
    (1972), B.S., M.B.A., Ph.D. (Florida State University)
XANDER, JAMES A., Associate Professor of Economics
    (1969), B.S., Ph.D. (University of Georgia)
YEARWOOD, GLADSTONE, Associate Professor of Motion Picture Technology, Director of African American Studies
YONETANI, AYAKO, Assistant Professor of Music
YOUNG, BETH, Assistant Professor of English
    (1997), B.A., M.A., Ph.D. (University of Southern California)
YOUNG, CYNTHIA, Assistant Professor of Mathematics and Florida Space Institute
    (1997), B.A., M.S., Ph.D. (University of Washington)
YUAN, JIAN S., Associate Professor of Engineering
    (1989), B.S.E., M.S.E., Ph.D. (University of Florida)
ZARZESKI, MARILYN T., Assistant Professor of Accounting
ZAYED, AHMED L., Professor of Mathematics and Electrical & Computer Engineering
    (1990), B.S., M.S., Ph.D. (University of Wisconsin)
ZEITZ, BRIAN, Captain, USAF, Assistant Professor of Aerospace Studies
    (1997), B.S., M.S. (University of Arkansas)
ZELDOVICH, BORIS, Professor of Physics
    (1994), B.Sc., M.Sc., D.Sc. (Lebedev Physics Institute)
ZHANG, HONG, Assistant Professor of History
    (1996), B.A., M.A., Ph.D. (University of Arizona)
ZHANG, YING, Instructor Librarian
    (1996), B.A., M.A.L.I.S. (University of South Florida)

FACULTY AND ADMINISTRATION EMERITI

ANDERSON, BETTY,
    (1968), B.A., M.A., Ed.D. (University of Maryland)
Professor Emeritus of Instructional Programs
BAKER, GRAEME L.,
    (1968), B.S., M.S., Ph.D. (Montana State University)
Professor Emeritus of Chemistry
BARR-JOHNSON, VIRGINIA,
    (1971), B.A., M.Ed., Ph.D. (Florida State University)
Professor Emeritus of Education
BOLTE, JOHN R.,
    (1968), B.A., M.A., M.S., Ph.D. (State University of Iowa)
Vice President Emeritus for Administration and Finance
BROWN, WILLIAM R.,
    (1972), B.S., M.S., Ph.D. (Purdue University)
Professor Emeritus of Sociology

BROWNE, ROLAND A.,
    (1968), B.A.M.A., C.E.F. (Queen's University, Canada)
Professor Emeritus of English
CARROLL, WILLIAM F.,
    (1985), B.S., M.S., Ph.D. (University of Illinois), P.E. (California, Florida, Illinois)
Professor Emeritus of Engineering
COLBOURN, TREVOR,
    (1978), B.A., M.A., M.A., Ph.D. (Johns Hopkins University)
President Emeritus and Professor of History
COMISH, NEWEL W.,
    (1968), B.S., M.S., Ph.D. (Ohio State University)
Professor Emeritus of Management
COX, ELAINE B.,
    (1973), B.S., M.A.T., Ph.D. (Florida State University)
Professor Emeritus of Education
CRAIG, ALBERT,
    (1970), B.S., M.A., Ed.D. (Florida State University)
Professor Emeritus of Education
DUTTON, ARTHUR M.,
    (1968), B.S., Ph.D. (Iowa State University)
Professor Emeritus of Statistics
ELLIS, LESLIE L.,
    (1968), B.S., M.S., Ph.D. (University of Oklahoma)
Professor Emeritus of Biology
ERICSON, ERNEST E.,
    (1969), B.E.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)
Professor Emeritus of Engineering
ESLER, WILLIAM K.,
    (1968), B.A.Ed., M.A.Ed., Ph.D. (Kent State University)
Professor Emeritus of Education
FOWLER, EARL C.,
Professor Emeritus of Education
GREEN, HAROLD E.,
    (1968), B.S., M.Ed., Ed.D. (University of Missouri)
Professor Emeritus of Education and Director, Daytona Beach Campus
GRIFFITH, HAROLD L.,
    (1972), B.S., M.S. (Pennsylvania State University), P.E. (Florida)
Professor Emeritus of Engineering Technology
HALL, HARRY O.,
Professor Emeritus of Instructional Programs
HARDEN, RICHARD C.,
    (1967), B.M.E., B.E.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)
Director and Professor Emeritus of Engineering, South Orlando Campus
HUBLER, J. W.,
    (1967), B.S.C.E., C.E., M.S.E., M.S.C.E. (Yale University), D.Eng. S. (Hon.) (University of Central Florida), P.E. (Florida and 18 other states)
Professor Emeritus of Engineering Technology
JENKINS, DAVID R.,
Professor Emeritus of Engineering
KERSTEN, ROBERT D.,
    (1968), B.S., M.S., Ph.D. (Northwestern University), P.E. (Florida, Arizona, and Oklahoma)
Dean Emeritus and Professor Emeritus of Engineering
KOVENIG, JAMES L., (1971), B.A., M.A., Ph.D. (University of Iowa)
Professor Emeritus of Biology
LYTLE, ERNEST J.,* (1968), B.S., M.A., Ph.D. (University of Florida)
Professor Emeritus of Mathematical Sciences
Professor Emeritus of Education
MATTSON, GUY C., (1969), B.S., Ph.D. (University of Florida)
Professor Emeritus of Chemistry
MCGEE, NANCY R.,* (1970), B.S., M.A., Ed.D. (Florida Atlantic University)
Distinguished Professor Emeritus of Education
Professor Emeritus of Engineering
MICARELLI, CHARLES N., (1967), B.A., M.A., Ph.D. (Boston University)
Dean and Professor Emeritus of Foreign Languages and Literatures
Dean and Professor Emeritus of Education
MILLER, ERNEST E., (1968), B.S., M.S., Ed.D. (University of North Dakota)
Professor Emeritus of Education
MILICAN, CHARLES N., (1965), B.S., M.A., Ph.D. (University of Florida)
President Emeritus and Professor of Finance
OSTLE, BERNARD, (1967), B.A., M.A., Ph.D. (Iowa State University)
Professor Emeritus of Statistics
REIDENBACH, RICHARD C., (1970), B.A., M.S., Ph.D. (St. Louis University)
Professor Emeritus of Management
Professor Emeritus of Engineering
SMITH, HARRY W., JR, (1969), B.A., M.A., Ph.D. (Tulane University)
Professor Emeritus of Theatre
Professor Emeritus of Education and Director Brevard Campus
TOWLE, HERBERT C., (1970), B.S.E., M.S.E., Ph.D. (University of Michigan), P.E. (Florida, New York)
Professor Emeritus of Engineering
UNKOVI, CHARLES M.,* (1968), B.A., M.A., Ph.D. (University of Pittsburgh)
Professor Emeritus of Sociology
WALKER, LYNN W., (1967), B.A., M.A. (Florida State University)
Director Emeritus of Libraries
WODZINSKI, RUDY J.,* (1970), B.S., M.S., Ph.D. (University of Wisconsin)
Professor Emeritus of Molecular Biology and Microbiology
WRIGHT, BURTON, (1970), B.S., M.S., Ph.D. (Florida State University)
Professor Emeritus of Sociology

YAROSH, MARVIN M., (1975), B.S., M.S. (University of Minnesota)
Associate Director Emeritus of the Florida Solar Energy Center
YOUSEF, YOUSEF A., (1970), B.S.C.E., M.S., Ph.D. (University of Texas), P.E.
(Florida, Texas)
Professor Emeritus of Engineering

COURTESY APPOINTMENTS

ALL ARSHAD, Professor of Biology
B.S., M.S., Ph.D. (University of Salford, England)
BARROS, NELIO P., Assistant Professor of Biology
B.S., M.C., Ph.D. (University of Miami)
BAUSHER, MICHAEL G., Research Associate of Molecular Biology and Microbiology
B.S., M.S., Ph.D. (University of Florida)
BAYER, CYNTHIA A., Biological Research Associate
B.S., Ph.D. (Syracuse University)
BEESON, RICHARD, Associate Professor of Biology
B.S., Ph.D. (Oregon State University)
BLANEY, KATHY, Clinical Faculty, Medical Department of Molecular Biology and Microbiology
B.S., M.S. (University of Central Florida)
BRADLEY, BONNIE, Clinical Faculty, Health Information Management
CAPRAUN, LYNN W., Clinical Faculty, Cardiopulmonary Sciences
R.T.T., B.S., M.S. (University of Central Florida)
CLARKE, THOMAS L., Faculty Associate, Department of Mathematics
B.S., M.S., Ph.D. (University of Miami)
COMPANION, MICHAEL A., Associate Professor of Psychology
B.S., M.A., Ph.D. (New Mexico State University)
CURRY, JR., R. CHARLES, Clinical Faculty, Cardiopulmonary Sciences
M.D. (University of Florida)
de LA ROSA, CARLOS L., Associate Professor of Biology
(1998), B.S., Ph.D. (University of Pittsburgh)
DE LOACH, JR., BERNARD C., Professor of Engineering
B.S., M.S., Ph.D. (Ohio State University)
DEATON, JOHN, Assistant Professor of Psychology;
Commander USN, NTSC
DELPACK, RAY, Principal Lecturer and Research Coordinator in Civil Engineering
(1994), B.S., M.S., Ph.D. (University of Glamorgan, Wales, U.K.)
DEYRUP, MARK, Assistant Professor of Biology
B.S., M.S., Ph.D. (University of Washington)
DHARE, NEELKANTH, Research Professor of Mechanical Engineering
(1990), B.S., M.S., Ph.D. (Poona, India)
DUEVER, MICHAEL J., Professor of Biology
B.S., M.S., Ph.D. (University of Georgia)
ERLICH, ISAAC, Professor of Criminal Justice and Legal Studies
M.D.
FITZPATRICK, JACK, Clinical Faculty, Cardiopulmonary Sciences
R.T.T., BS (University of Central Florida)
FRANCIS, JOHN L., Professor of Biological Chemistry  
Ph.D. (Royal College of Pathologists, UK)  
FRANKLIN, RAYMOND, Clinical Faculty, MLS, Department of  
Molecular Biology and Microbiology  
M.D., Ph.D. (University of Texas)  
FULLERTON, STUART, Biological Research Associate  
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GIBSON, JANE STRANDBURG, Associate Professor and  
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Microbiology  
B.S., M.S., Ph.D. (University of Florida)  
GILES, JO ANN, Clinical Faculty, Medical Laboratory Sciences  
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GILLIARD, LAWRENCE M., Medical Director of  
Cardiopulmonary Sciences and Clinical Faculty  
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GOLDBERG, STEVEN, Associate Professor of Psychology;  
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(1994), B.A., Ph.D. (State University of New York at Buffalo)  
GRACY, WILLIAM, Clinical Faculty, Medical Laboratory  
Sciences  
B.S.M.T. (University of Florida)  
GREEN, JANICE, Clinical Faculty, Medical Laboratory  
Sciences  
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HARMAN, ROBERT, Professor of Psychology; Director of  
UCF Counseling Center  
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KAPLAN, MICHAEL, Professor of Psychology  
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KAUFMAN, ROGER, Faculty Associate, Industrial Engineering  
and Management Systems  
B.S., M.S., Ph.D. (New York University)  
KIMEL, ISODORO, Research Professor of Physics  
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KINCAID, J. PETER, Professor of Psychology  
B.A., M.A., Ph.D. (Ohio State University)  
KINLAW, ALTON, Biological Research Associate  
B.S., M.S. (North Carolina State University)  
KLOTZ, SOLOMAN D., Research Associate in Molecular  
Biology and Microbiology and Clinical Faculty Cardiopulmonary  
Science  
LAWMAN, MICHAEL J., Professor and Research Associate,  
Department of Molecular Biology and Microbiology  
Ph.D. (Surrey)  
LAWMAN, PATRICIA D., Associate Professor and Research  
Associate, Department of Molecular Biology and Microbiology  
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LELI, DANO, Faculty Associate, Psychology  
B.A., M.S., Ph.D. (University of South Florida)  
LONGLEY, ROSS E., Research Associate in Molecular Biology  
and Microbiology  
B.S., M.S., Ph.D. (University of Oklahoma)  
LOPEZ, FRANK, Faculty Associate, School Psychology  
M.D. (Universidad Cetec, Dominican Republic)  
LUER, CARL A., Associate Professor of Biology  
B.A., M.A., Ph.D. (University of Kansas Medical Center)  
MAYER, RICHARD T., Professor of Chemistry  
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McCOLLON, JEAN M., Research Associate, Department of  
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B.S., M.S. (University of Arizona)  
McPHERSON, BRENTA, Faculty Associate, Educational  

Services  
M.S. (University of Central Florida)  
MEDIN, A. LOUIS, Professor of Engineering  
Ph.D. (Ohio State University)  
MENGES, ERIC, Assistant Professor of Biology  
B.S., M.S., Ph.D. (University of Wisconsin)  
NELSON, BILL, Distinguished Fellow, Space Education and  
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B.A., J.D. (University of Virginia)  
NIMMO, BRUCE G., Research Professor of Mechanical  
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(1990), B.M.E., M.S., Ph.D. (Stanford)  
ODELL, DANIEL K., Professor of Biology  
B.S., M.A., Ph.D. (University of California, Los Angeles)  
PITTMAN, DAVID J., Professor  
(1997), B.A., M.A., Ph.D. (University of Chicago)  
PRITCHARD, PETER C. H., Professor of Biology  
B.A., M.A., Ph.D. (University of Florida)  
REECE, DOUGLAS A., Assistant Professor of Computer  
Science  
B.S., M.S., Ph.D. (Carnegie Mellon University)  
ROATH, STUART, Professor of Biology  
B.S., M.B., M.D. (University of Wales, UK)  
SAFRANEK, WILLIAM, Clinical Faculty, MLS, Department of  
Molecular Biology and Microbiology  
Ph.D. (Temple University)  
SALAS, EDUARDO, Associate Professor of Psychology  
B.A., M.S., Ph.D. (Old Dominion University)  
SELSKY, CLIFFORD, Associate Professor of Chemistry  
B.S., Ph.D., M.D. (Yale University)  
SINGER, MICHAEL JAMES, Faculty Associate, Psychology  
B.A., M.S., Ph.D. (University of Maryland)  
THOMPSON, CORLEY M., Associate Professor of Chemistry  
and Research Chemist  
B.S., M.S., Ph.D. (Auburn University)  
THOMSON, WALTER M., Research Associate, Department of  
Biology  
B.S., M.S. (University of Central Florida)  
TILSTONE, WILLIAM J., Professor of Chemistry  
B.S., Ph.D. (University of Glasgow, Scotland)  
ULMER, LYNN, Clinical Faculty, MLS, Department of  
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M.S. (SUNY, Buffalo)  
VAJRAVELU, RANI, Assistant Professor of Biology  
B.S., M.S., Ph.D. (University of Madras)  
WALSH, ANTHONY, Clinical Faculty, Medical Laboratory  
Sciences  
Ph.D. (University of Florida)  
WEBB, JAMES M., Clinical Faculty, Cardiopulmonary Sciences  
RRT, B.S. (Loma Linda University)  
WETHERBEE, JUDITH, Clinical Faculty, MLS, Department of  
Molecular Biology and Microbiology  
B.S. (University of New Hampshire)  
WHISLER, MARY L., Associate Professor in Political Science  
B.A., M.A., Ph.D. (University of Wisconsin)  
YESAWICH, PETER, Professor of Hospitality Management  
B.S., M.S., Ph.D. (Cornell University)  
YING, NELSON, Faculty Associate, Department of Physics  
B.S., M.S., Ph.D. (Adelphi University)  
YOUNG, DENISE L., Assistant Professor of Social Work  
B.A., M.S.W., Ph.D. (University of Michigan)
AA: Associate of Arts Degree. A degree designed for transfer to an upper-division college or university. A Florida AA degree satisfies General Education at all Florida SUS Schools.

ADR: Academic Development and Retention.

AS: Associate of Science Degree. A broad based degree designed to prepare students to enter a wide variety of careers.

AS: Arts and Sciences. This abbreviation appears in the catalog listing of courses and refers to the College of Arts and Sciences.

Accreditation: Certification that the College or program has met established standards and is nationally recognized by appropriate accrediting agencies.

ACT: American College Testing Program is an assessment used for undergraduate admission purposes.

Add/Drop: The procedure used to alter class schedules after registration and through the first week of the semester. During this time, you can adjust your schedule by dropping or adding courses without penalty.

Audit (degree): Computerized summary of progress toward completion of degree requirements to be used with academic advising and registration. Available at your advising office with a picture ID (See SASS Audit).

BA: Business Administration. This abbreviation appears in the catalog listing of courses and refers to the College of Business Administration.

Baccalaureate or Bachelors Degree: Completion of all university and major graduation requirements as certified by the university (BA is the Bachelor of Arts Degree and BS is the Bachelor of Science Degree).

Breaking Catalog: Loss of eligibility to follow graduation requirements in a specific catalog.

CAS: College of Arts and Sciences

Catalog: A resource of all academic policies and procedures, college and degree requirements, faculty and course descriptions. It is published yearly and is subject to change. Students must meet graduation requirements as published in a single catalog.

Catalog in Effect: The university catalog in effect at the time of a student’s first enrollment at UCF shall govern graduation prerequisites.

CBA: College of Business Administration.

CI: Consent of Instructor.

Class Schedule: Booklet that contains the anticipated courses to be offered for the upcoming term(s) and contains the specific times of day (or evening) and the days of the week the classes will be offered.

CLAST: College Level Academic Skills Test: The CLAST is a required statewide test which measures selected communication and mathematics skills. You must take it no later than the term you are enrolled for your 55th semester hour.

CLAST Alternative: Refers to another way of satisfying one or more subtests of the CLAST requirement other than taking the exam -- through combination test scores (SAT or ACT) and specific course grades.

COE: College of Education.

COHPA: College of Health and Public Affairs.

College: A collection of related academic departments. There are five colleges at the University of Central Florida. They are Arts and Sciences, Business Administration, Education, Engineering, and Health and Public Affairs.

Common Course Numbering: The Statewide Course Numbering System (SCNS) uses a course designation which consists of a 3-letter prefix and a 4-digit number and when necessary a one-letter laboratory (L) or lecture/laboratory (C) suffix. All courses assigned the same SCNS course identifier-prefix, same last three digit number, and suffix (if present)—have been judged to be equivalent, and should be considered automatically transferrable. The first digit of the four digit number is assigned by the institution, and indicates the level at which the course is offered. This digit does not affect the equivalency.

Common Program Prerequisite: The State of Florida has identified Common Program Prerequisites for all university programs. These prerequisites must be completed by all students going into that field of study, must be accepted by all state universities and applied towards the degree.

Contact hours: The number of hours the students meet in class.

Continuous Enrollment: Enrollment not interrupted by non-attendance for either consecutive fall and spring semesters, or consecutive spring, summer, and fall semesters. Continuous enrollment is automatically broken by the act of disqualification or exclusion and starts over with the next term of enrollment.

CR: Corequisite is an additional course that you must enroll in during the same term or in a prior term as the primary course you wish to take.

Credit Hour or Semester Hour: Every course taught is designated a total number of credit hours. The number of credit hours for a class reflects approximately the total hours a student spends per week in class. Most lecture courses are three credit hours and meet three hours each week. Expect to spend at least two hours of study time outside of class for every hour your spend in class. 1 semester hour equals 1.5 quarter hour.

Distance and Distributed Learning: Learning on-line through distributed courses allows students to participate virtually via a computer using e-mail, computer conferencing and the World Wide Web. Interactive television (ITV) courses are broadcasted in real-time using two-way audio between two or more sites. Fully on-line courses have minimal class
meetings and involve additional media.

Drop: A student may drop a course during the official Add/Drop period and a dropped course will not appear on a permanent record. For withdrawal after the Add/Drop period, the Withdrawal Policy must be consulted.

DTAC: UCF Downtown Academic Center, 36 West Pine Street, Orlando.

ED: Education. This abbreviation appears in the catalog listing of courses and refers to the College of Education.

Elective: Any course not required as part of the General Education Program or your major.

EN: Engineering. This abbreviation appears in the catalog listing of courses and refers to the College of Engineering.

Excess Hours: When a student enrolls in semester hour credit beyond a maximum amount allowed for their particular degree program, additional fees are assessed for semester hours taken above this limit.

Fee Invoice: A printout of courses for which you have registered that lists each specific course, time and day(s). The amount of tuition and fees due for all courses registered and the payment deadline date is also indicated on printout.

Freshman and Sophomore Courses: Those courses with numbers ranging from 1000-2999. Example: ENC 1101, English Composition I. Generally, freshmen should enroll in 1000 and 2000 level courses.

FTIC: Abbreviation for "First Time in College" referring to those students who have completed fewer than 12 semester hours and are currently in their first term as a UCF college student.

Full-Time Course Load: Usually it is a minimum of 12 credits in the fall and spring terms and a minimum of 9 credits in the summer term.

GEP: General Education Program: Specific courses required for all UCF degree programs providing skills and knowledge in general subject areas essential to continued learning and success, not only in college but throughout life.

Gordon Rule: Requires students to complete 24,000 words of composition in 4 courses (12 semester hours) and to complete 2 courses (6 semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a grade of "C" or better.

GPA: Grade Point Average: The calculation of credit attempted and earned. UCF calculates 2 GPA’s: (1) based on all college course work taken anywhere and (2) course work taken exclusively at UCF.

Grade Forgiveness: Refers to when a course taken at UCF is repeated and the grade earned in the first attempt is replaced by the grade earned in the second attempt (can only be done twice for UCF courses).

Health Form: Documentation of immunity for measles and rubella, as well as consent for treatment at the University Health Center. (Must be completed and returned to the Registrar’s Office prior to first registration.)

HPA: Health and Public Affairs. This abbreviation appears in the catalog listing of courses and refers to the College of Health and Public Affairs.

Junior and Senior Courses: those courses with numbers ranging from 3000-4999. Example: ENG 3311, Advanced Expository Writing.

Limited Access: Certain academic programs designated as "limited access" only guaranteed admission to a limited number of applicants.

Lower Level Courses: Courses with a number of 1000 or 2000 (not 0000).

Major: A group of related courses which constitute a focused program of study in a specific area of knowledge.

Minor: A small group of related courses which constitute limited study, usually 15 to 18 hours.

OASIS Office of Academic Support and Information Services is the primary office for undergraduate academic assistance in the College of Arts and Sciences.

Pending Status: Category assigned to students who wish to enter limited access programs. Typically, students are required to complete the GEP and all major pre-requisites prior to admission into the desired limited access program. (Department will change student’s status upon acceptance into the program.)

POLARIS: Personal On-Line Access to Restricted Information Systems is accessed at http://polaris.ucf.edu on the Internet. POLARIS allows students to view their degree audit and academic record, register for classes, access their financial aid data and change their PIN number.

PR: Pre-requisite refers to a specific course that must be taken and passed prior to enrolling in the primary course you wish to take.

Registration: The act of signing up for classes. This may be done through POLARIS, TouchTone telephone, walk-by or various colleges and departments.

Restricted Access: A major has additional admission requirements, e.g. early application date, a separate application or specific GPA requirements. There is no "limit" to the number of students who can be enrolled. Students solving the specified requirement(s) will normally be admitted.

Restricted Electives: A specified group of courses within a major from which students must make selections.

Retention: A term used to describe students’ persistence at the university until successful completion of their educational goals.

SARC: Student Academic Resource Center provides academic support programs, including supplemental instruction, tutoring, academic advising, and various other programs and services to students.
SASS Audit: A Student Academic Support System is a computerized degree audit listing courses completed toward major and degree requirements.

SAT: Scholastic Assessment Test is an assessment used for admission purposes.

Section: Refers to one of several classes of the same course offered at several different hours of the day. For example: there may be 40 different sections of ENC 1101 in a single semester.

Sequence: A series of courses within the same subject area. Generally, you take these course in numerical order: for instance PHY 2053, 2054, consult your advisor before registering out of sequence.

Semester: The academic year at UCF is divided into parts called semesters or terms. Each lasts approximately 15 weeks. Some universities break the year into fourths and call them quarters. UCF is on the semester system; however, we usually speak of “Fall Term,” “Spring Term, or “Summer Term.”

SUS: State University System. All ten Florida public universities are a part of the SUS.

TouchTone (telephone) Registration: Voice response registration system. Used for registration and add/drop.

TSR: Transfer Summary Report: Listing of all coursework transferring to the university for credit toward a degree. TSR is processed after all final transcripts have been received by Admissions Office.

Universal PIN: Four digit code required to access POLARIS, TouchTone, the UCF Information Kiosks, and the Direct Access Financial Aid System.

Transient Student: Student attempting to complete courses at another regionally accredited institution while enrolled at UCF.

UCF Area Campuses: Daytona Beach and Brevard area campuses.

Upper Level Courses: Courses with a number of 3000 or 4000 (not 5000, 6000, or 7000).

Walk-by registration: Registration site available for students who choose not to register or add/drop by telephone or who have special situations which cannot be accommodated by telephone registration.

Withdrawal, Withdraw from a Course: To cease participation and responsibility for completing a class. Limited to the first half of the semester and fees are not refunded. See withdrawal policy listed in catalog or schedule of classes for details. Fees are not refundable.
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Telephone
High School
College(s) Attended
Category: Freshman ___ Transfer ___ Entrance Date: Summer 19 ___ Fall 19 ___ Spring 19 ___
Social Security # (optional) __________ __________ __________
Ethnic Origin (optional) ____ American Indian or Alaska Native ____ African American ____ Other
CAT ___ Asian or Pacific Islander ___ Hispanic ___ White (not of Hispanic Origin)

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